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ORDER FOR SUPPLIES OR SERVICES SCHEDULE - CONTINUATION

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER CONTRACT NO.

PAGE NO

2

ORDER NO.

05/14/20)19 EP-C-16-008				68HERC19F0139	
ITEM NO.	SUPPLIES/SERVICES	QUANTITY	(5750)/80 81	UNIT	AMOUNT	QUANTITY
(a)	(b)	ORDERED (c)	(d)	PRICE (e)	(f)	ACCEPTED (g)
0001	Admin Office: CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001 Period of Performance: 02/01/2020 to 09/30/2022 ***Optional Form 347, Box 11. Business Classification should indicate that Great Lakes Environmental Center is a "small" business. However, it is marked as "other than small" business due to a system error. *** BASE PERIOD: Task Order Ceiling and Funding: Provide services in accordance with the attached Performance Work Statement, Attachment 1 to this Task Order entitled "National Coastal Condition Assessment 2020 - Benthic Macroinvertebrate Identification" Accounting Info: 19-E1-87FM-000B06XP1-2505-1987ME9006-0 01 BFY: 19 Fund: E1 Budget Org: 87FM Program (PRC): 000B06XP1 Budget (BOC): 2505 DCN - Line ID: 1987ME9006-001 Funding Flag: Complete Funded: (b)(4)	(6)(4)			(b)(4)	
0002	BASE PERIOD: Sample Quantity in accordance with the attached Performance Work Statement, Attachment 1 to this Task Order entitled "National Coastal Condition Assessment 2020 - Benthic Macroinvertebrate Identification" 1 sample = 1 unit. (Not Separately Priced) OPTION A Optional Samples: in accordance				(b)(4)	
	TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))				(b)(4)	

ORDER FOR SUPPLIES OR SERVICES SCHEDULE - CONTINUATION

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

PAGE NO

DATE OF ORDER CONTRACT NO. ORDER NO. EP-C-16-008 68HERC19F0139 05/14/2019 ITEM NO. SUPPLIES/SERVICES QUANTITY UNIT UNIT **AMOUNT** QUANTITY ACCEPTED ORDERED PRICE (d) (f) (a) (b) (c) (e) (g) Statement, Attachment 1 to this Task Order entitled "National Coastal Condition Assessment 2020 - Benthic Macroinvertebrate Identification" optional samples priced (b)(4) sample for a total of (b)(4)(Option Line Item) 09/30/2022 (b)(4)(b)(4)0004 OPTION A Samples: Quantity Options in accordance with the attached Performance Work Statement, Attachment 1 to this Task Order entitled "National Coastal Condition Assessment 2020 - Benthic Macroinvertebrate Identification" (b)(4)(b)(4)(Option Line Item) 09/30/2022 (Not Separately Priced) (b)(4)0005 OPTION B Optional Samples: in accordance with the attached Performance Work Statement, Attachment 1 to this Task Order entitled "National Coastal Condition Assessment 2020 - Benthic Macroinvertebrate Identification" (b)(4)(b)(4)(b)(4)0006 OPTION B Samples: Quantity Options in accordance with the attached Performance Work Statement, Attachment 1 to this Task Order entitled "National Coastal Condition Assessment 2020 - Benthic Macroinvertebrate Identification" (b)(4) (b)(4)TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

ORDER FOR SUPPLIES OR SERVICES PAGE NO **SCHEDULE - CONTINUATION** 4 IMPORTANT: Mark all packages and papers with contract and/or order numbers. DATE OF ORDER CONTRACT NO. ORDER NO. 68HERC19F0139 EP-C-16-008 05/14/2019 ITEM NO. QUANTITY UNIT SUPPLIES/SERVICES UNIT **AMOUNT** QUANTITY ORDERED (c) ACCEPTED (g) PRICE (e) (d) (f) (a) (b) (b)(4)(b)(4)(Option Line Item) 09/30/2022 (Not Separately Priced)

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

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SECTION F - Deliveries or Performance	5
F-1 Local Clauses EPA-F-12-101 PERIOD OF PERFORMANCE	5
SECTION G - Contract Administration Data	7
G-1 Local Clauses EPA-G-42-101 CONTRACT ADMINISTRATION REPRESENTATIVES	7
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SECTION F - Deliveries or Performance

F-1 Local Clauses EPA-F-12-101 PERIOD OF PERFORMANCE

The period of performance of this contract shall be from 2/1/20120 through 9/30/2022 inclusive of all required reports.

SECTION G - Contract Administration Data

G-1 Local Clauses EPA-G-42-101 CONTRACT ADMINISTRATION REPRESENTATIVES

Task Order Contracting Officer's Representatives (TOCORs) for this contract are as follows:

Lareina Guenzel, 202-566-0455, Guenzel.lareina@epa.gov

Hugh Sullivan, 202-564-1763, sullivan.hugh@epa.gov

Contracting Officials responsible for administering this contract are as follows:

Nicholas Bisher, 513-487-2652, bisher.nicholas@epa.gov

SECTION J - List of Documents, Exhibits and Other Attachments

Attachment Number	Title	Date
1	Attachment 1 – Performance Work Statement	5/7/2019
2	Attachment 2 – GLEC Points of Contact	5/7/2019

Performance Work Statement Technical Support for National Aquatic Resource Surveys (NARS 2) Task Order TBD

TITLE: National Coastal Condition Assessment 2020 - Benthic Macroinvertebrate

Identification

A. EPA PERSONNEL

Task Order Contracting Officer Representative (TOCOR):

Name: Lareina Guenzel

Office: Office of Water/Office of Wetlands, Oceans &

Watersheds/Assessment and Watershed Protection

Division/Monitoring Branch

Address: 1200 Pennsylvania Avenue NW (4503T), Washington, DC 20460

Phone: 202-566-0455

E-mail: Guenzel.lareina@epa.gov

Alternate Task Order Contracting Officer Representative (ALT-TOCOR):

Name: Hugh Sullivan

Office: Office of Water/Office of Wetlands, Oceans &

Watersheds/Assessment and Watershed Protection

Division/Monitoring Branch

Address: 1200 Pennsylvania Avenue NW (4503T), Washington, DC 20460

Phone: 202-564-1763

E-mail: sullivan.hugh@epa.gov

B. PERIOD OF PERFORMANCE

February 1, 2020 through September 30, 2022

C. TASK ORDER TYPE

Firm Fixed Price

I. BACKGROUND:

The U.S. EPA, states and other partners are planning the third survey of the nation's estuarine and Great Lake resources to provide regional and national data on their condition. The National Coastal Condition Assessment (NCCA) 2020 is designed to evaluate conditions in the nation's coastal waters. Field crews from EPA, States, Tribes and contractors will collect field samples of benthic macroinvertebrates from bottom substrates from multiple sites. EPA and partners may also collect samples from a smaller number of sites in 2021 as a pilot (up to 100).

EPA arranges for laboratory support for processing benthic samples. States and Tribes can choose to use their own laboratories or EPA's contract laboratory. Because of State, Tribal, and EPA choices, the actual number of samples can vary throughout the season. In addition, there are circumstances in which field crews might not collect samples (hard pan substrate, for example). Considering these aspects, the contractor will receive a minimum of 500 samples for processing through the task order. To allow for the potential of additional samples collected by the survey, Islands, and other studies in 2020 and 2021, the task order contains options for EPA to order up to another 1000 samples (10 options of 100 samples) and up to another 100 samples in smaller options (10 options of 10 samples).

Before the laboratory submits the data to EPA, the analyst who generated the data and an experienced data reviewer must independently check and review the data, as follows:

- The analyst shall review the data to ensure that:
 - o Sample preparation information is correct and complete
 - o Analysis information is correct and complete
 - o The appropriate method and standard operating procedures were followed
 - o Results are correct and complete
 - o Quality control measures were within established limits
 - o Documentation is complete
- The data reviewer shall review the data package to verify that:
 - o Internal QC information is included as appropriate
 - o Taxonomy data are scientifically sound and appropriate
 - o Quality control measures were within established guidelines
 - o Qualitative and quantitative results are correct
 - o Data spreadsheet conforms to EPA data template requirements
 - o Documentation is complete

Accompanying all data submissions, the laboratory shall provide a short narrative that includes the following information:

- Total number of samples included and their sample numbers;
- Discussion of any protocol deviations that may have occurred during sample processing;
- Discussion of QC questions that were encountered and the corrective measures taken;
- Definitions of any laboratory QC codes used in the data;
- Internal QC excursions exceeding established QC requirements.

II. PURPOSE

The purpose of this task order is to identify the taxa of benthic macroinvertebrate communities in samples collected in the NCCA 2020 and related NARS or other studies including the possibility of sampling in 2021 on a smaller number of sites. The types of support required for this project include technical support, sample identifications, transmittal of the results in database format, and a reconciled database at the conclusion of quality control procedures.

III. GOVERNMENT FURNISHED INFORMATION

EPA will arrange for delivery of the samples to the laboratories.

The following documents are references for the task order. They are located in the NCCA 2020 Task Order Information folder at:

https://usepa.sharepoint.com/sites/OW_Community/nars/_layouts/15/start.aspx#/Contracts/Forms/AllItems.aspx.

- 2020 Laboratory Operations Manual (LOM)
- 2020 Field Operations Manual (FOM); and
- Data template (i.e., spreadsheet for reporting laboratory data).

As they become available, the EPA TOCOR will provide the contractor with revisions of relevant documents, including the FOM and LOM, and any other information deemed necessary for the contractor to provide the support for the Performance Work Statement (PWS).

IV. GENERAL REQUIREMENTS

In providing support under the tasks described in Section V, the contractor also shall adhere to the following general requirements:

1. Deliverables (see Contract PWS B.1)

Memoranda shall be placed on company letterhead and the subject line will include the phrase "EPA Contract #".

The contractor shall name all electronic files using a logical abbreviation for the name of the document (e.g., TO14Data), the contractor name, and the date of edits to assist in version control (ex: TO14Data_ LABNAME_2020_12_02).

The contractor shall use EPA's templates for reporting the results of the taxonomic analyses for the samples. For any other database or spreadsheet submitted to EPA, the contractor must provide metadata that, at a minimum, identify the fields recorded for each sample, define the codes used for the field, and include the version number and date. The contractor must ensure that all sample results must be linked to EPA site ids and sample ids when submitted.

The contractor shall ensure that documentation is created using Agency standard software formats (e.g., Microsoft Office) to facilitate EPA use and review.

2. Identification at Meetings/Teleconferences (see Contract clause C.2)

Contractor personnel shall always identify themselves as contractor employees by name and organization. Contractor personnel are prohibited from acting as the Agency's official representative. The contractor shall refer any questions relating to the interpretation of EPA policy, guidance, or regulation to the TOCOR.

The contractor shall follow the provision of EPA prescription 1523.703-1, acquisition of environmentally preferable meeting and conference services (May 2007), for the use of offsite commercial facilities for an EPA event, whether the event is a meeting, conference,

training session, or other purpose. Environmental preferability is defined at FAR 2. 10 l, and shall be used when soliciting quotes or offers for meeting /conference services on behalf of the Agency. No single event under this *TO* is anticipated to exceed \$20,000. The contractor shall immediately notify the EPA Contracting Officer, PO and TOCOR of any anticipated event involving support for a meeting, conference, workshop, symposium, retreat, seminar or training that may potentially incur \$20,000 or more in cost during performance. Conference expenses are all direct and indirect costs paid by the government and include any associated authorized travel and per die m expenses, room charges for official business, audio visual use, light refreshments, registration fees, ground transportation and other expenses as defined by the Federal Travel Regulations. All outlays for conference preparation should be included, but the federal employee time for conference preparation should not be included. After notifying EPA of the potential to reach this threshold, the Contractor shall not proceed with the task(s) until authorize d to do so by the Contracting Officer.

3. As required, the TOCOR shall provide technical direction in accordance with Clause H-12 of the contract, EPAAR 1552.237-71 TECHNICAL DIRECTION (AUG 2009) and the Contract Level PWS.

V. SCOPE OF WORK

The contractor shall provide laboratory support for the sorting, identification, and enumeration of benthic macroinvertebrates as described in the following tasks.

Task 1. Task Order Management and Monthly progress reports (See Contract Attachments 2 and 3; PWS B.2)

The contractor shall manage the Task Order (TO) and submit monthly progress and financial reports prepared and submitted in accordance with the contract clause, Contract Attachment 2, Reports of Work.

- a. *Teleconferences*: The contractor, and its laboratories, shall participate in EPA's teleconferences about laboratory procedures for receiving, storing, tracking, analyzing, and reporting benthos samples and results. Prior to the shipping of the first specimens in each sampling year, EPA will coordinate and facilitate 1-3 teleconference calls, each to last approximately 1 hour, to review the laboratory method, required reporting elements, data templates, and the relevant requirements in the Quality Assurance Project Plan (QAPP). The participants will include EPA, the contractor's laboratories, subcontract laboratories, and potentially State laboratories. If EPA conducts multiple teleconferences (e.g., due to State laboratory personnel availability), the contractor shall participate in all calls because different issues may arise that would require feedback from the contractor. The goal of the teleconferences is to ensure consensus on the analytical procedures and a schedule for sample processing and reporting. The agenda will include review of the:
 - i. OAPP
 - ii. LOM

- iii. Data template
- iv. Standard Operating Procedures (SOPs)
- v. Taxonomic references
- vi. Training, experience, and proficiency of taxonomists
- vii. Taxonomic reconciliation process

b. Plan and Schedule

"The plan shall describe the contractor's procedures for managing samples throughout the different stage (e.g. delivery to the laboratory sample preparation sample sorting; sample identification; results reported to EPA). The plan shall include a schedule that:

Assumes that EPA will exercise all options (i.e. the plan should address processing time and scheduling on 1500 samples from the 2020 field sampling and 100 samples from 2021)

Specifies preferred number of samples and timing of when the batch laboratory should deliver the sample to the contractor. In developing the delivery schedule, consider:

- a. Because few crews sample early in the season (e.g. May and early June), the batching lab would have relatively few samples to ship to the laborator.
- b. It is not desirable to have many samples at the batching laboratory for a long time. EPA also intends to close the batching laboratory relatively soon after the field season ends (e.g., November 2020; November 2021).
- iii. Projects the number of samples in each of the analysis stages (e.g., receipt, sorting, identification, results submitted to EPA) in a given period of time (e.g., monthly, quarterly);
- iv. Completes all laboratory analyses and all activities from the 2020 field season by August 1, 2021 and at least two months prior to the end of the period of performance for samples collected in 2021; and
- v. Responds to EPA's data questions between August 1, 2021 and September 30, 2021 and during the final two months of the period of performance for samples collected in 2021.

the contractor shall review and if appropriate expand upon and/or confirm the plan and schedule submitted with the proposal.

- c. *Status Summaries*: Prior to delivering the progress report, the contractor shall provide monthly status summaries. The monthly status summary shall match the time period covered by the progress report. The contractor shall provide Excel spreadsheets with the monthly status summaries that include:
 - i. The number of samples received by the lab (cumulative total and number received during that reporting cycle).
 - ii. The number of samples for which the laboratory has finished each of the analysis stages (cumulative total and number completed during that reporting cycle).

- iii. The number of samples for which the laboratory has submitted complete results (for that sample) to EPA (cumulative total and number submitted during that reporting cycle).
- iv. The taxonomists that performed the identifications. Separately, provide the resume (or cv) for each taxonomist. The contractor only needs to provide the resume once for each taxonomist.
- v. Percent capacity reached in the contract (i.e., number of sample results delivered compared to the maximum number specified in task order when all quantities are exercised); and percent capacity of samples ordered or 'exercised' (i.e. number of samples results delivered compared to the number of samples included in exercised quantities).
- vi. Data for the samples processed, or reconciled, since the previous summary. The contractor shall report the data using EPA's data template, but updated with the new, revised, and reconciled data. In addition, the contractor shall provide a separate case narrative (e.g., emailed Word or pdf file) for the EPA TOCOR to review with the data.
- vii. Filename for each image corresponding to taxon identified in the processed data (task 1.c.v). Separately provide any new image. (The contractor only needs to provide an image for a taxon once.)
- viii. Provide a simple list of the invoiced samples with the EPA sample #, site ID, and visit #. The TOCOR will compare the list with the NCCA master list of samples to verify that every sample has been invoiced one time.
- d. *Monthly Progress and Financial Reports*: The contractor shall provide a progress and financial report each month that matches the costs in the corresponding invoice.
 - i. The contractor shall provide a progress report each month that includes project status; expenditures to date; number of samples in each processing stage compared to the contractor's plan/schedule; unexpected problems or concerns, including with quality assurance; lessons learned; Quality Assurance / Quality Control (QA/QC) activities; and next steps. The contractor shall prepare and submit the monthly progress reports in accordance with the contract clause, Contract Attachment 2, Reports of Work.
 - ii. The contractor shall prepare and submit the financial reports in accordance with the contract clause, Contract Attachment 2, Reports of Work.
 - iii. For the sample analyses completed during the month and billed in the invoice, the financial report shall identify the sample using its site identification code and EPA sample identification.
 - iv. For the month in which the contractor delivers the final database for Task 4, the contractor shall include the costs for Task 4.
- e. *Issues Requiring EPA Resolution*: The contractor shall immediately notify the EPA TOCOR of any unexpected problems or concerns, including but not limited to issues with QA/QC, and recommend remedies or corrective actions. Upon receiving written technical direction from the EPA TOCOR, the contractor shall revise its schedule in the technical proposal and respond to any additional comments/concerns from the EPA TOCOR

following submission of the revised plan. The contractor also shall include problems and concerns in the monthly progress report.

Deliverables and Schedule under Task 1:

Subtask	Deliverable	Due
a.	Participation in	Date/time per written technical
	teleconferences	direction from EPA TOCOR based
		upon contractor's recommended
		dates/times
b.	Plan and Schedule	Within two months of award
	(expanded or confirmation	
	that the original is correct)	
c.	Status updates with data in	Monthly
	spreadsheet, sample list,	
	and separate case narrative.	
c.	Resumes for taxonomists	Upon the taxonomist's assignment to
	attached to an email	task order
d.	Progress and financial	Monthly
	reports in electronic format	-
e.	Email	Immediately when issue identified.
e.	Revised technical plan and	Revisions within 5 working days per
	schedule request (as	written technical direction and/or
	necessary)	within 5 days of comments from
		TOCOR.

Task 2. Quality Assurance (Contract PWS B.3)

Quality Assurance (QA) is an important component of EPA's work to assure that minimum quality standards are attained. The contractor shall address the QA requirements of this task order by adhering to the requirements and procedures identified in:

- The contractor's Quality Management Plan incorporated into this NARS 2 contract;
- NCCA Survey QA documents how quality assurance and quality control will be applied to the collection of environmental data for the survey. The documents relevant to support in this task order are:
 - Quality Assurance Project Plan (QAPP)
 - Laboratory Operations Manual (LOM)

The NCCA 2020 quality documents will evolve throughout the task order. The contractor shall notify the EPA TOCOR immediately if it identifies areas where its previous activities are not consistent with the revisions made to the QAPP and LOM. The EPA TOCOR will determine whether any modifications to the contractor's previous activities will be necessary, which may require a modification to the task order by the EPA Contracting Officer (CO).

- a. The contractor shall demonstrate a commitment to adhere to the QAPP, the contractor's Quality Assurance Official (QAO) and each laboratory's QAO shall sign the page "Review & Distribution Acknowledgment and Commitment to Implement" in the introductory section of the QAPP. The contractor shall distribute the version of the QAPP and LOM available at award of the task order, and any additional revisions approved by the EPA QAO, throughout the contractor's organization, including subcontractors and consultants. If EPA distributes an updated version of the LOM and states that it contains a "significant change" relevant to taxonomic analyses, the contractor shall acknowledge, in writing (e.g., Email), that it has received and distributed the revised LOM to the appropriate personnel.
- b. The contractor shall demonstrate its implementation of QA in performing the other tasks in this Performance Work Statement. The contractor shall document its QA activities as follows:
 - i. Standard Operating Procedures (SOPs) and any other quality assurance documentation developed or adopted by the contractor's laboratory for use in performing the required analyses. If the contractor does not develop or modify them as part of the costs incurred by the task order, the contractor may claim the SOPs to be proprietary.
 - ii. Reports of relevant QA activities in any deliverable. All QA documentation prepared under the task order shall be considered non-proprietary.
 - iii. Monthly reports of QA activities performed during implementation of this task order. These monthly QA reports shall identify QA activities performed to support implementation of this task order, problems encountered, deviations from the QAPP, and corrective actions taken. The contractor shall include the QA report with the monthly progress report.
- c. The contractor shall demonstrate its ability to conform to NCCA measurement quality objectives. The contractor shall, at a minimum, ensure that the data meet the measurement quality objectives in the QAPP.
- d. The EPA will assess Contractor performance in accordance with the Quality Assurance Surveillance Plan (QASP), paragraph VII of this PWS.

Deliverables and Schedule under Task 2:

Subtask	Deliverable	Due	
a.	Original QAPP signature page	No later than 5 working days after	
		effective date of task order or 5	
		working days after receiving the	
		EPA approved QAPP if not	
		approved at effective date	

Subtask	Deliverable	Due	
	Email acknowledgement of LOM with	No later than 10 working days	
	"significant change"	after receiving revised LOM	
	Laboratory SOPs	No later than 5 working days after	
		effective date of task order. If the	
		laboratory modified the SOPs	
		during the performance period,	
		provide the final versions 5	
		working days before the end of the	
		performance period. Otherwise,	
		provide an email stating that the	
		SOPs have remained unchanged	
		throughout the task order.	
	Documentation of QA activities	With deliverables	
	Taxonomist resume	When assigned to task order	
	Bench sheets with QC Officer review	With monthly progress report	
b.	Monthly reports of QA activities	With monthly progress report	
	during months when samples are		
	delivered and/or processed		
c.	Data and QC elements identified in	With database	
	procedure		

Task 3. Benthic Analysis (Contract PWS B.3., C.4)

The contractor shall strictly follow ALL benthic macroinveretebrate procedures in the appropriate QAPP and LOM for sorting, counting and identifying benthic macroinvertebrate organisms in the samples. All samples shall be fully sorted, identified and enumerated. The use of subsampling procedures is not authorized for this task order. The contractor shall provide expert taxonomists for identifying marine and Great Lake samples, including those who have appropriate expertise in identifying taxa from the Northeast, Mid-Atlantic, Southeast, Gulf of Mexico and West Coasts of the continental U.S.

If the contractor identifies a situation requiring a minor change in the protocol, the EPA TOCOR must approve the deviation before the contractor can implement the change.

In addition to the delivery of data addressed in Task 1, the contractor shall provide the deliverables resulting from the following activities:

- a. Log each sample and record the condition of the sample into the NARS Information Management (IM) provided spreadsheet and email to NARS IM; contact information will be provided by the TOCOR before sampling begins) within 24 (clock) hours of the sample arriving at the laboratory. If the sample does not arrive when expected, the contractor shall immediately notify the EPA TOCOR or her designee.
- b. Provide an email to the EPA TOCOR with any recommended changes to keys and references.

c. Develop a reference library using preserved specimens and digital photo imagery (see digital specifications in the LOM). In the library, the contractor shall include one of each unique type of organism identified, as described in the LOM. The contractor shall provide access to the specimens and a copy of the digital library to EPA. Note, EPA may identify some samples (e.g., from National Park Service lands) that must be returned; the contractor shall not include specimens from these samples in the reference library.

d. Retain:

- o Samples and sorting residuals for the period specified in the laboratory method.
- Original records, including bench notebooks and the reference library, for a minimum of ten (10) years from the date that EPA publishes the NCCA 2020 data publicly. If EPA determines that transfer to another location is necessary, EPA will make separate arrangements (e.g., task order modification, purchase order) with the contractor for any necessary packaging and shipping expenses. Otherwise, at the end of the retention period, the contractor shall follow its internal protocols for disposal.
- e. Unless the TOCOR grants an exception, the contractor shall not publish findings based upon work conducted under this task order. This restriction shall remain in effect until EPA provides public access to the data.

Deliverables and Schedule under Task 3:

Subtask	Deliverable	Due
a.	Sample logged into NARS IM system	Within 24 (clock) hours of
		sample receipt
a.	Email identifying missing sample	Immediately if sample does not
		arrive when expected
b.	Email with recommended changes to	Within 5 working days of
	keys and references	identified need for change.
c.	Access to specimens in reference library	Upon EPA TOCOR's written
		request via technical direction.
c.	Copy of digital library by email, FTP	With final database. Interim
	transfer, or SharePoint upload	copies within 10-15 days per
		written technical direction from
		the EPA TOCOR.
d.	Access to laboratory notebooks	Upon EPA TOCOR's written
	-	request via technical direction.

Task 4. Final Database (Contract PWS B.1, B.3, C.4)

- a. The contractor shall provide revised and final databases for the results of the benthic analyses from samples collected in 2020 as described in Task 1b. The contractor shall provide:
 - i. Responses to EPA's questions about the data, as conveyed by the EPA TOCOR's technical direction.

- ii. Revised databases per written technical direction describing required changes based upon EPA's review of the data and reconciliation activities.
- iii. Final database that incorporates revisions identified by the EPA TOCOR's technical direction.
- b. For samples collected in 2021, the contractor shall provide a compiled, but separate, dataset and will answer EPA questions during the last two months of the period of performance.

Deliverables and Schedule under Task 4:

Subtask	Deliverable	Due
a.i	Email with responses to data questions	1-5 working days per technical
		direction
a.ii and	Revised databases and emails that	10 working days after receiving
b	summarize the changes	the EPA TOCOR's written
		technical direction. The
		contractor shall assume five
		revisions and associated
		summaries will be required as a
		result of EPA's review of the
		data during the periods identified
		in Task 1b
a.iii.	Final database	10 working days after receiving
		written technical direction; but
		no later than 5 working days
		prior September 30, 2021 for
		2020 samples
b	Compiled dataset	10 working days after receiving
		written technical direction; but
		no later than 5 working days
		prior to the end of the period of
		performance

VI. TRAVEL

EPA does not anticipate that any travel will be necessary to perform the tasks in the Performance Work Statement.

VII. QUALITY ASSURANCE SURVEILLANCE PLAN

EPA will judge performance using the following Quality Assurance Surveillance Plan (QASP).

Performance Requirement	Measurable Performance Standards	Surveillance Method	Incentives/Disincentives
Management and Communications:	Any issue adversely impacting project schedules, cost, time or quality shall be	EPA TOCOR will identify unreported issues.	Two or more incidents where the contractor:

Performance Requirement	Measurable Performance Standards	Surveillance Method	Incentives/Disincentives
The Contractor shall maintain contact with the EPA TOCOR throughout the performance of the task order and shall immediately bring potential problems to the attention of the EPA TOCOR. In cases where issues have a direct impact on project schedules, cost, time, or quality, the contractor shall provide options for EPA's consideration on resolving the issues or mitigating their impacts.	brought to the attention of the EPA TOCOR within 3-working days of occurrence.		Does not provide timely notification; or Created a severe adverse situation will be considered unsatisfactory performance and will be reported as such in the CPARS Performance Evaluation System under the category of Management. Fewer than two incidents where the contractor does not meet the measurable performance standard will be considered acceptable performance and will be reported as such in the CPARS Performance Evaluation System.
Timeliness: Data (Task 1) and databases (Task 4) shall be delivered in accordance with the schedule developed in PWS Task 1. After EPA accepts the final schedule in Task 1, it is unlikely that EPA will be willing to extend the schedule due to any factors under the contractor's control (e.g., to complete work under another contract).	 No more than 25% of the data for Task 1 shall be submitted more than 3 working days past the date in the accepted schedule. None of the data for Task 1 shall be submitted more than 40 working days past the date in the accepted schedule. No more than 10% of the revised databases (Task 4) shall be submitted more than 3 working days past the date in the accepted schedule. No delays in submitting the final database (Task 4) by the "no later than" date in the PWS. 	100% of the progress reports, data submissions, and databases will be reviewed by the EPA TOCOR monthly to compare actual delivery dates against those in the approved schedule from Task 1 and Task 4.	Unsatisfactory rating under the category of Schedule in CPARS when the contractor does not meet the measurable performance standards during the applicable period of performance.
Technical Effort: The Contractor shall assign appropriately leveled and skilled personnel to all tasks; and abide by the contractor's QMP, the NCCA QAPP, and the benthics method.	No more than 25% of reviewed deliverables and data shall require revisions to meet the requirements of the QMP, NCCA QAPP, data templates, and benthics method. None of the samples in the final database (Task V.4) shall have other than full sorts and counts.	100% of the data, taxonomists' resumes, and training certifications (per Task 1) will be reviewed by the EPA TOCOR to identify noncompliance issues with the QMP, NCCA QAPP, and benthics method. Final database will be reviewed for full sort and count information.	Unsatisfactory rating under the category of Quality in CPARS when the contractor does not meet the measurable performance standards during an applicable period of performance.

Performance Requirement	Measurable Performance Standards	Surveillance Method	Incentives/Disincentives
	All of the assigned staff must meet the LOM requirements for their assigned duties.		

GLEC Points of Contact for Task Order Solicitation PR-OW-19-00056 National Coastal Condition Assessment 2020: Benthic Macroinvertebrate Identification

Points of Contact and Shipping Information

TO Role	Organization	Person's name	Phone	Emall	include person on emails? (Y/N)
(b)(4)	Prime: Great Lakes Environmental Center, Inc. (GLEC) 739 Hastings Traverse City, MI 49686 GLEC (b)(4)	(b)(4)	(b)(4)	(b)(4)	Y (b)(4)

CONTACT AND SHIPPING INFORMATION:

1.	. Samples should be shipped with electrical tape around the lid.	Include absorbent m	aterial whe	er:
	packaging the samples for shipment.			

121 E 2		
2. Please cal	(b)(4)	if samples require a Saturday delivery and provide a tracking number on Friday

AMENDMENT OF SOLICITATION/MODIFIC	ATION OF CONTR	ACT	CONTRACT ID CODE	PAGI	E OF PAGES
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. RE	QUISITION/PURCHASE REQ. NO.	5. PROJEC	. 3 T NO. (If applicable)
P00001	See Block 1	see	Schedule		, ,,
6. ISSUED BY CODE			OMINISTERED BY (If other than Item 6)	CODE	
CAD US Environmental Protection 26 West Martin Luther King : Mail Code: W136 Cincinnati OH 45268-0001	_				
8. NAME AND ADDRESS OF CONTRACTOR (No., street	nt. county. State and ZIP Co.	de) , 9	A. AMENDMENT OF SOLICITATION NO.		
GREAT LAKES ENVIRONMENTAL CE Attn: William J Arnold 739 HASTINGS STREET FRAVERSE CITY MI 496863458		(X) 9 X 1	B. DATED (SEE ITEM 11) DA. MODIFICATION OF CONTRACT/ORDER SP-C-16-008 SHERC19F0139 DB. DATED (SEE ITEM 13)	NO.	
CODE 800884181	FACILITY CODE		05/14/2019		
00 00 0 0 0 0 7 7 7 7	11. THIS ITEM ON		MENTS OF SOLICITATIONS		
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D. OTHER (Specify type of modification	• • • • • • • • • • • • • • • • • • • •				
X Unilateral - FAR 52	.216-22				
E. IMPORTANT: Contractor Sis not 14. DESCRIPTION OF AMENDMENT/MODIFICATION DUNS Number: 800884181 (b)(4)		this document and return		8	
TOCOR: Lareina Guenzel Max E Invoice App: Hugh Sullivan LIST OF CHANGES: Reason for Modification: Exe Total Amount for this Modification of the Continued Except as provided herein, all terms and conditions of the Continued of the Continue of	ercise an Opt cation: \$0.(zion 00 I in Item 9 A or 10A, as h		n full force and	effect .
15B. CONTRACTOR/OFFEROR	15C. [DATE SIGNED 16B	. UNITED STATES OF AMERICA	ELECTRONIC SIGNATURE	

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NAME OF OFFEROR OR CONTRACTOR

EM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
A)	(B)	(C)	(D)	(E)	(F)
	New Total Amount for this Version: (b)(4)				
	New Total Amount for this Award: \$1,337,800.00				
	Obligated Amount for this Modification:				
	(b)(4)				
	New Total Obligated Amount for this Award:				
	(b)(4)				
	CHANGES FOR LINE ITEM NUMBER: 4				
	Quantity changed from (b)(4)				
	CHANGES FOR LINE ITEM NUMBER: 3				
	Total Amount changed				
	from (b)(4)				
	CHANGES FOR LINE THEM NUMBER.				
	CHANGES FOR LINE ITEM NUMBER: 2				
	Quantity changed from (b)(4)				
	CHANGES FOR LINE ITEM NUMBER: 1				
	Total Amount changed				
	(b)(4)				
	Obligated Amount for this Modification:				
	(b)(4)				
	(0)(4)				
	NEW ACCOUNTING CODE ADDED:				
	Account code:				
	19-E1-87FM-000B06XP1-4183-1987ME9019-001				
	Beginning FiscalYear 19				
	Ending Fiscal Year				
	Fund (Appropriation) E1				
	Budget Organization 87FM				
	Program (PRC) 000B06XP1				
	Budget (BOC) 4183				
	Job # (Site/Project)				
	Cost Organization				
	DCN-LineID 1987ME9019-001				
	Quantity: 0				
	Amount: (b)(4)				
	Percent: (b)(4)				
	Subject To Funding: N				
	Payment Address:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
	ballam No 27711				
	NEW ACCOUNTING CODE ADDED:				
	Account code:				
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NAME OF OFFEROR OR CONTRACTOR

EM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	19-20-B-05HEL-000BJ7XF5-2505-1905HIX505-001				
	Beginning FiscalYear 19				
	Ending Fiscal Year 20				
	Fund (Appropriation) B				
	Budget Organization 05HEL				
	Program (PRC) 000BJ7XF5				
	Budget (BOC) 2505				
	Job # (Site/Project)				
	Cost Organization				
	DCN-LineID 1905HIX505-001				
	Quantity: 0				
	Amount: (b)(4)				
	Percent: (b)(4)				
	Subject To Funding: N				
	Payment Address:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
	Payment:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
	Period of Performance: 02/01/2020 to 09/30/2022				
	All other Terms and Conditions remain unchanged.				
	All other reims and conditions remain unchanged.				
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P00002	See Bloo	_		W-20-00379		,
6. ISSUED BY CODE	CAD		7. ADN	MINISTERED BY (If other than Item 6)	CODE	
CAD US Environmental Protection 26 West Martin Luther King I Mail Code: W136 Cincinnati OH 45268-0001						
8. NAME AND ADDRESS OF CONTRACTOR (No., street	t. countv. State and	ZIP Code)	I9A.	AMENDMENT OF SOLICITATION NO.		
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C. THIS SUPPLEMENTAL AGREEMEN	T IS ENTERED	INTO PURSUANT TO AU	THORI	TY OF:		
D. OTHER (Specify type of modification	and authority)					
X Unilateral - FAR 52.	216-22					
E. IMPORTANT: Contractor X is not	is required t	to sign this document and	return	copies to the issuing	office.	
(b)(4) to (b)(4) This a (b)(4) This modifice exercised options, which ful TOCOR: Lareina Guenzel Max E Invoice App: Hugh Sullivan LIST OF CHANGES: Reason for Modification: Execontinued Except as provided herein, all terms and conditions of the conditions of	tion is tem 0001 lso incr ation pr ly funds xpire Da	to exercise (to exercise), which increed asses the number ovides funding the task order te: 09/30/202	b)(4) ases ber ig in ler (2)	Option B quantity of sthe ceiling for line of samples on line item the amount of (b)(4) ceiling of (b)(4) nvoiceApprover: Lareina	otion item m 000 for Guen	0001 from 2 from the zel Alt
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. I	NAME AND TITLE OF CONTRACTING OFFIC	CER (Type	or print)
			San	dra Stargardt-Licis		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED	16B. U		ECTAO:	

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NAME OF OFFEROR OR CONTRACTOR

TEM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	Total Amount for this Modification: \$0.00				
	New Total Amount for this Version: (b)(4)				
	New Total Amount for this Award: \$1,337,800.00				
	Obligated Amount for this Modification: (b)(4)	1			
	New Total Obligated Amount for this Award:	1			
	(b)(4)				
	Buyer changed from Nicholas Bisher to Amanda				
	Toole				
	Contracting Officer changed from Nicholas Bisher				
	to Sandra Stargardt-Licis				
	CHANGES FOR LINE ITEM NUMBER: 5				
	Total Amount changed				
	from (b)(4)				
	CHANGES FOR LINE ITEM NUMBER: 1				
	Total Amount changed				
	from (b)(4)	-			
	Obligated Amount for this Modification: (b)(4)				
	CHANGES FOR DELIVERY LOCATION: OW-OWOW-AWPD-MB				
	Amount changed from (b)(4)				
	NEW ACCOUNTING CODE ADDED:	1			
	Account code:				
	(ACC (AMPSON) A AMADE (AMPSON) (AMPSON) A A				
	20-21-B-87FM-000B67-2505-2087ME4007-001				
	Beginning FiscalYear 20				
	Ending Fiscal Year 21				
	Fund (Appropriation) B				
	Budget Organization 87FM				
	Program (PRC) 000B67				
	Budget (BOC) 2505				
	Job # (Site/Project)				
	Cost Organization				
	DCN-LineID 2087ME4007-001				
	Quantity: 0				
	Amount: (b)(4)				
	Percent: (b)(4)				
	Subject To Funding: N				
	Payment Address:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
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NAME OF OFFEROR OR CONTRACTOR

TEM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	CHANGES FOR LINE ITEM NUMBER: 2				
	Quantity changed from (b)(4)				
	CHANGES FOR LINE THEM NUMBER (
	CHANGES FOR LINE ITEM NUMBER: 6				
	Quantity changed from (b)(4)				
	Payment:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
	Period of Performance: 02/01/2020 to 09/30/2022				
	All other Terms and Conditions remain unchanged.				
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AMENDMENT OF SOLICITATION/MODIFIC.	ATION OF C	ONTRACT		1. CONTRACT ID CODE	F	PAGE OF	PAGES		
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P00003	See Bloo	ck 16C	PR-O	W-20-00664					
6. ISSUED BY CODE	CAD		7. ADN	MINISTERED BY (If other than Item 6)	CODE				
CAD US Environmental Protection 26 West Martin Luther King D Mail Code: W136 Cincinnati OH 45268-0001	_								
8. NAME AND ADDRESS OF CONTRACTOR (No., street	. countv. State and	ZIP Code)	, J9A.	AMENDMENT OF SOLICITATION NO.					
GREAT LAKES ENVIRONMENTAL CE Attn: William J Arnold 739 HASTINGS STREET TRAVERSE CITY MI 496863458	9B. × 10A E E	DATED (SEE ITEM 11) A. MODIFICATION OF CONTRACT/ORDER NO PC-16-008 BHERC19F0139 B. DATED (SEE ITEM 13)	Э.						
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separate letter or electronic communication which incl RECEIVED AT THE PLACE DESIGNATED FOR THE OFFER. If by virtue of this amendment you desire to each letter or electronic communication makes referent 12. ACCOUNTING AND APPROPRIATION DATA (If required see Schedule	udes a reference RECEIPT OF O change an offer a nce to the solicita uired)	e to the solicitation and ar FFERS PRIOR TO THE already submitted , such ation and this amendmen	mendme HOUR A change t, and is	AND DATE SPECIFIED MAY RESULT IN REJE may be made by letter or electronic communica	EDGEM CTION (ation, pro ecified.	ENT TO B OF YOUR ovided	SE .		
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71 100 (27%) 27%			CT THE ADMINISTRATIVE CHANGES (such as changes in paying office, JTHORITY OF FAR 43.103(b).						
C. THIS SUPPLEMENTAL AGREEMEN	T IS ENTERED	INTO PURSUANT TO AU	JTHORI	TY OF:					
D. OTHER (Specify type of modification	and authority)								
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E. IMPORTANT: Contractor is not	x is required t	o sign this document and	return	1 copies to the issuing	office.				
14. DESCRIPTION OF AMENDMENT/MODIFICATION DUNS Number: 800884181 The purpose of this modifica	(Organized by U	CF section headings, inc	luding s	olicitation/contract subject matter where feasib	le.)	[((b)(4)		
and obligate FY 20/21 fundin which fully funds this task TOCOR: Lareina Guenzel Max E Invoice App: Hugh Sullivan LIST OF CHANGES: Reason for Modification: Fun Total Amount for this Modifi New Total Amount for this Ve New Total Amount for this Aw Continued Except as provided herein, all terms and conditions of the Total Amount Total Amount for this Aw Continued	g in the order. xpire Da ding Onl cation: rsion: (b ard: \$1,	amount (b)(4) te: 09/30/202 y Action \$0.00)(4) 337,800.00	22 I1	(net change zero) on Lin	ne It	tem 00	Alt		
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(Signature of person authorized to sign)			-	(Signature of Contracting Officer)			1/21/2020		

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NAME OF OFFEROR OR CONTRACTOR

M NO. A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	CHANGES FOR LINE ITEM NUMBER: 1				
	NEW ACCOUNTING CODE ADDED:				
	Account code:				
	20-21-B-05HEL-000BJ7XF5-2505-2005HIX503-001				
	Beginning FiscalYear 20				
	Ending Fiscal Year 21				
	Fund (Appropriation) B				
	Budget Organization 05HEL				
	Program (PRC) 000BJ7XF5				
	Budget (BOC) 2505				
	Job # (Site/Project)				
	Cost Organization				
	DCN-LineID 2005HIX503-001				
	Quantity: 0				
	Amount: (b)(4)				
	Percent: (b)(4)				
	Subject To Funding: N				
	Payment Address:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
	CHANGES FOR ACCOUNTING CODE:				
	19-20-B-05HEL-000BJ7XF5-2505-1905HIX505-001				
	Amount changed from (b)(4)				
	Payment:				
	RTP Finance Center				
	US Environmental Protection Agency RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
	Period of Performance: 02/01/2020 to 09/30/2022				
	All other Terms and Conditions remain unchanged.				
	This other remarks and conditions remain unchanged.				
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AMENDMENT OF SOLICITATION/MODIFI	CATION OF C	ONTRACT		CONTRACT ID CODE	P/		PAGES
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE	DATE	4. RE	 QUISITION/PURCHASE REQ. NO.	5. PROJ	1 JECT NO	. (If applicable)
P00004	See Blo	ck 16C					
6. ISSUED BY COD	E CAD		7. AE	MINISTERED BY (If other than Item 6)	CODE		
CAD US Environmental Protection 26 West Martin Luther King Mail Code: W136 Cincinnati OH 45268-0001	_						
8. NAME AND ADDRESS OF CONTRACTOR (No., str	eet. county. State and	I ZIP Code)		A. AMENDMENT OF SOLICITATION NO.			
GREAT LAKES ENVIRONMENTAL C Attn: William J Arnold 739 HASTINGS STREET TRAVERSE CITY MI 496863458	(X) 98 X 10 E 6	B. DATED (SEE ITEM 11) A. MODIFICATION OF CONTRACT/ORDER NOT P-C-16-008 8HERC19F0139 B. DATED (SEE ITEM 13)	O.				
CODE 800884181	FACILITY COD	E	()5/14/2019			
	11. THIS IT	EM ONLY APPLIES TO A	MEND	MENTS OF SOLICITATIONS			
separate letter or electronic communication which in RECEIVED AT THE PLACE DESIGNATED FOR THOFFER. If by virtue of this amendment you desire the each letter or electronic communication makes refer 12. ACCOUNTING AND APPROPRIATION DATA (If respectively)	copies of the amer noludes a reference HE RECEIPT OF C to change an offer rence to the solicite equired)	idment; (b) By acknowled to the solicitation and an OFFERS PRIOR TO THE I already submitted, such o ation and this amendment	ging remembers HOUR change t, and i	eceipt of this amendment on each copy of the off ent numbers. FAILURE OF YOUR ACKNOWL AND DATE SPECIFIED MAY RESULT IN REJE may be made by letter or electronic communica	fer submit EDGEME ECTION C ation, provectified.	ited ; or (d ENT TO B DF YOUR vided	c) By BE
CHECK ONE A. THIS CHANGE ORDER IS ISSUED ORDER NO. IN ITEM 10A.) PURSUANT TO:	(Specify authority) THE	CHAN	GES SET FORTH IN ITEM 14 ARE MADE IN TH	HE CONT	RACT	
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C. THIS SUPPLEMENTAL AGREEME	NT IS ENTERED	INTO PURSUANT TO AU	ITHOR	ITY OF:			
D. OTHER (Specify type of modification	on and authority)						
E. IMPORTANT: Contractor 🗵 is not	is required	to sign this document and	return	copies to the issuing	g office.		
14. DESCRIPTION OF AMENDMENT/MODIFICATIO DUNS Number: 800884181 TOCOR: Lareina Guenzel Max	N (Organized by U	ICF section headings, incl	luding	solicitation/contract subject matter where feasib	ile.)	ızel 2	Alt
Invoice App: Hugh Sullivan LIST OF CHANGES: Reason for Modification: Ot	her Admin	istrative Act	cior	ı			
Section I: Clause titled " Video Surveillance Services Prohibition on Contracting or Equipment. (AUG 2020)	or Equip	ment. (AUG 20	020)	" is incorporated by re	feren	ice.	
Continued							
Except as provided herein, all terms and conditions of 15A. NAME AND TITLE OF SIGNER (Type or print)	the document refe	erenced in Item 9 A or 10A	_	eretofore changed, remains unchanged and in for NAME_AND TITLE OF CONTRACTING OFFICE			
2. 2.2.12.x(.,yps 5. pinny			2000	ndra Stargardt-Licis		p/iiit)	
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		UNITED STATES OF AMERICA	ECTAO:	SIC.	C. DATE SIGNED
(Signature of person authorized to sign)			-	(Signature of Contracting Officer)	IGNATU	0	9/08/2020

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NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
, -,	The purpose of this modification is to incorporate the attached EPA blanket administrative modification signed by Raoul Scott on July 30, 2020. All other terms and conditions remain unchanged. Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 02/01/2020 to 09/30/2022			,-,	,- <i>,</i> -

AMEN	IDMENT OF SOLICITATION	/MODIFICATION (OF CONTRACT	1. CONTRACT ID CO	DDE F	PAGE C	F PAGES		
2. AMENDME	NT/MODIFICATION NUMBER	3. EFFECTIVE DATE 08/13/2020	4. REQUISITION/PURCHASE	 E REQUISITION NUMBER	5. PROJECT I	NUMBER ((If applicable)		
6. ISSUED BY	CODE		7. ADMINISTERED BY (i	ADMINISTERED BY (If other than Item 6) CODE					
OMS/ARM US Enviror 1200 Penr	Scott, Director I/OAS/Policy, Training and Over nmental Protection Agency, Mai nsylvania Avenue, NW n, DC 20004	rsight Division I Code 3802R			L				
	ADDRESS OF CONTRACTOR (Number, str	eet, county, State and ZIP Co	ode)	(X) 9A. AMENDME	NT OF SOLICITA	ATION NUL	MRER		
To All EPA	Contractors			9B. DATED (SEI 10A. MODIFICA To all EPA (10B. DATED (SE	EITEM 11) TION OF CONTI	RACT/ORI	DER NUMBER		
CODE		CILITY CODE							
	11. THIS ITE	M ONLY APPLIES TO	AMENDMENTS OF S	OLICITATIONS					
or (c) By separa RECEIVED AT by virtue of this communication	ng items 8 and 15, and returning ate letter or electronic communication which is THE PLACE DESIGNATED FOR THE RECE amendment you desire to change an offer al makes reference to the solicitation and this a	ncludes a reference to the sol EIPT OF OFFERS PRIOR TO ready submitted, such change mendment, and is received p	icitation and amendment num THE HOUR AND DATE SPE e may be made by letter or ele rior to the opening hour and d	bers. FAILURE OF YO CIFIED MAY RESULT I extronic communication, ate specified.	UR ACKNOWLE IN REJECTION (provided each le	DGMENT OF YOUR	TO BE OFFER. If		
			DIFICATIONS OF COI R NUMBER AS DESC						
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PUR NUMBER IN ITEM 10A.		1 16 17			NTRACT	ORDER		
X	B. THE ABOVE NUMBERED CONTRACT/ appropriation data, etc.) SET FORTH IN	HE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, opropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).							
	THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:								
	D. OTHER (Specify type of modification and	authority)			·				
		s required to sign this			s to the issuir	ng office			
This contra 4.2105, red Telecomm	act/order is being modified in acquiring contracting officers to incurrent unications and Video Surveillaned for the full text version of FA	cordance with the ap clude FAR clause 52. ce Services or Equip	plicability instructions 204-25, Prohibition o ment.	s in interim FAR (on Contracting fo	Case 2019-0 r Certain	009, an	d FAR		
Except as provi	ded herein, all terms and conditions of the do	cument referenced in Item 9A	or 10A, as heretofore change	ed, remains unchanged	and in full force	and effect.			
	ND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Raoul D. Scott, Director Policy, Training and Oversight Division							
	- 1					- 3			
15B. CONTRA	CTOR/OFFEROR	15C. DATE SIGNED	RAOUL SCO		RAOUL SCOTT 1:40:17 -04'00'	16C. DA	TE SIGNED		
(S	ignature of person authorized to sign)	_	(Signature	of Contracting Officer)	Contracting Officer)				

52.204-25 Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

As prescribed in 4.2105(b) and in the applicability instructions in interim FAR Case 2019-009, insert the following clause:

Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment (Aug 2020)

(a) <u>Definitions</u>. As used in this clause—

Backhaul means intermediate links between the core network, or backbone network, and the small subnetworks at the edge of the network (e.g., connecting cell phones/towers to the core telephone network). Backhaul can be wireless (e.g., microwave) or wired (e.g., fiber optic, coaxial cable, Ethernet).

Covered foreign country means The People's Republic of China.

Covered telecommunications equipment or services means—

- (1) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);
- (2) For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);
- (3) Telecommunications or video surveillance services provided by such entities or using such equipment; or
- (4) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

Critical technology means-

- (1) Defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations;
- (2) Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled-

- (i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or
 - (ii) For reasons relating to regional stability or surreptitious listening;
- (3) Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities);
- (4) Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material);
- (5) Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or
- (6) Emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. 4817).

Interconnection arrangements means arrangements governing the physical connection of two or more networks to allow the use of another's network to hand off traffic where it is ultimately delivered (e.g., connection of a customer of telephone provider A to a customer of telephone company B) or sharing data and other information resources.

Reasonable inquiry means an inquiry designed to uncover any information in the entity's possession about the identity of the producer or provider of covered telecommunications equipment or services used by the entity that excludes the need to include an internal or third-party audit.

Roaming means cellular communications services (e.g., voice, video, data) received from a visited network when unable to connect to the facilities of the home network either because signal coverage is too weak or because traffic is too high.

Substantial or essential component means any component necessary for the proper function or performance of a piece of equipment, system, or service.

(b) Prohibition. (1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. The Contractor is prohibited from providing to the Government any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104.

- (2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract, or extending or renewing a contract, with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract.
 - (c) Exceptions. This clause does not prohibit contractors from providing—
- (1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or
- (2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.
 - (d) Reporting requirement.
- (1) In the event the Contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Contractor is notified of such by a subcontractor at any tier or by any other source, the Contractor shall report the information in paragraph (d)(2) of this clause to the Contracting Officer, unless elsewhere in this contract are established procedures for reporting the information; in the case of the Department of Defense, the Contractor shall report to the website at https://dibnet.dod.mil. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at https://dibnet.dod.mil.
- (2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause
- (i) Within one business day from the date of such identification or notification: the contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.
- (ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.

(e) *Subcontracts*. The Contractor shall insert the substance of this clause, including this paragraph (e) and excluding paragraph (b)(2), in all subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

(End of clause)

AMENDMENT OF SOLICITATION/MODIFICA	ATION OF CO	ONTRACT		1. CONTRACT ID CODE	PA	GE OF PAGES
O AMENDMENT/MODIFICATION NO	la effective	DATE	4.00	FOLISITION/PURCHASE REQ. NO.	Is ppour	1 3
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE	I _T		EQUISITION/PURCHASE REQ. NO. ·OW-21-00018	5. PROJE	ECT NO. (If applicable)
P00005	See Bloo	ZK 16C		PROPERTY SECURITY OF THE SECURITY SECUR	0005	
6. ISSUED BY CODE	CAD		7. A	DMINISTERED BY (If other than Item 6)	CODE	
CAD US Environmental Protection 26 West Martin Luther King D Mail Code: W136 Cincinnati OH 45268-0001						
8. NAME AND ADDRESS OF CONTRACTOR (No., street	county State and	ZIP Code)	0	DA. AMENDMENT OF SOLICITATION NO.		
GREAT LAKES ENVIRONMENTAL CE Attn: William J Arnold 739 HASTINGS STREET TRAVERSE CITY MI 496863458	12%		(X) 9 X 1 E	DB. DATED (SEE ITEM 11) DB. MODIFICATION OF CONTRACT/ORDER NEP-C-16-008 SBHERC19F0139 DB. DATED (SEE ITEM 13)	O.	
CODE 800884181	FACILITY COD	E		05/14/2019		
	44 TUIC ITI	M ONLY ADDITIES TO AN		DMENTS OF SOLICITATIONS		
☐ The above numbered solicitation is amended as set for Offers must acknowledge receipt of this amendment put lems 8 and 15, and returning conseparate letter or electronic communication which include RECEIVED AT THE PLACE DESIGNATED FOR THE OFFER. If by virtue of this amendment you desire to each letter or electronic communication makes referer	rior to the hour a pies of the amen udes a reference RECEIPT OF O change an offer a	and date specified in the sidenent; (b) By acknowledge to the solicitation and am FFERS PRIOR TO THE Halready submitted, such c	olicita ging r nendr HOUF chang	ation or as amended, by one of the following me receipt of this amendment on each copy of the of ment numbers. FAILURE OF YOUR ACKNOWL R AND DATE SPECIFIED MAY RESULT IN REJE ge may be made by letter or electronic communic	thods: (a) E fer submitte EDGEMEN ECTION OF ation, provi	ed ; or (c) By NT TO BE F YOUR
12. ACCOUNTING AND APPROPRIATION DATA (If requise See Schedule	uired)					
13. THIS ITEM ONLY APPLIES TO M	ODIFICATION O	F CONTRACTS/ORDERS	i. IT I	MODIFIES THE CONTRACT/ORDER NO. AS DE	SCRIBED I	IN ITEM 14.
A. THIS CHANGE ORDER IS ISSUED FORDER NO. IN ITEM 10A.	PURSUANT TO:	(Specify authority) THE (CHAN	NGES SET FORTH IN ITEM 14 ARE MADE IN TI	HE CONTR	RACT
X B. THE ABOVE NUMBERED CONTRAC appropriation data, etc.) SET FORTH				DMINISTRATIVE CHANGES (such as changes in YOF FAR 43.103(b). RITY OF:	n paying o	iffice,
D. OTHER (Specify type of modification	and authority)					
E. IMPORTANT: Contractor X is not	is required t	o sign this document and	retur	n copies to the issuing	g office.	
14. DESCRIPTION OF AMENDMENT/MODIFICATION DUNS Number: 800884181	Organized by U	CF section headings, inclu	uding	g solicitation/contract subject matter where feasib	le.)	
The purpose of this modifica	tion is	to revise G-1	L	ocal Clauses EPA-G-42-10	1 Cont	tract
Administration Representativ TOCOR: Kendra Forde Max Expi App: Hugh Sullivan LIST OF CHANGES: Reason for Modification: Oth	re Date:	09/30/2022 I			de Alt	t Invoice
Total Amount for this Modifi						
Total Amount for this Modifi	cacion.	70.00				
TOCOR (Task Order Contractin Invoice Approving Official c Continued Except as provided herein, all terms and conditions of the	hanged t	o: Kendra For	de			nd effect.
15A. NAME AND TITLE OF SIGNER (Type or print)				A. NAME AND TITLE OF CONTRACTING OFFICE Andra Stargardt-Licis	CER (Type	or print)
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED	<u> </u>	3. UNITED STATES OF AMERICA	ectaos:	
(Signature of person authorized to sign)			-	· (Signature of Contracting Officer)	HUTAKUR	10/16/2020

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NAME OF OFFEROR OR CONTRACTOR

EM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	Payment:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
	Period of Performance: 02/01/2020 to 09/30/2022				
	All other terms and conditions remain unchanged.				
			ıl		

SECTION G - Contract Administration Data

G-1 Local Clauses EPA-G-42-101 CONTRACT ADMINISTRATION REPRESENTATIVES

Task Order Contracting Officer's Representatives (TOCORs) for this contract are as follows:

Task Order Contracting Officer's Representative: Kendra Forde, 202-566-0417, forde.kendra@epa.gov

Alternate Task Order Contracting Officer's Representative: Hugh Sullivan, 202-564-1763, sullivan.hugh@epa.gov

Contracting Officials responsible for administering this contract are as follows:

Contracting Officer: Sandra Stargardt-Licis, 513-487-2006, licis.sandy@epa.gov

Contract Specialist: Amanda Toole, 513-569-7170, toole.amanda@epa.gov

AMENDMENT OF SOLICITATION/MODIFICA	ATION OF C	ONTRACT		CONTRACT ID CODE	P/	AGE OF PAGES
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE	DATE	4. REC	UISITION/PURCHASE REQ. NO.	5. PROJ	1 3 DECT NO. (If applicable)
P00006	See Blo	ck 16C	See	Schedule		1,
6. ISSUED BY CODE	CAD		7. ADI	MINISTERED BY (If other than Item 6)	CODE	
CAD US Environmental Protection 26 West Martin Luther King D Mail Code: W136 Cincinnati OH 45268-0001						
3. NAME AND ADDRESS OF CONTRACTOR (No., street.	, county, State and	ZIP Code)	\ 9A.	AMENDMENT OF SOLICITATION NO.		
GREAT LAKES ENVIRONMENTAL CENT Attn: William J Arnold 739 HASTINGS STREET PRAVERSE CITY MI 496863458		c	9B. × 10/ × EF	A. MODIFICATION OF CONTRACT/ORDER NO -C-16-008 BHERC19F0139 B. DATED (SEE ITEM 13)	0.	
CODE 800884181	FACILITY COD	E		5/14/2019		
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CHECK ONE A. THIS CHANGE ORDER IS ISSUED FORDER NO. IN ITEM 10A.	PURSUANT TO:	(Specify authority) THE (CHANG	ES SET FORTH IN ITEM 14 ARE MADE IN THE MINISTRATIVE CHANGES (such as changes in OF FAR 43.103(b).	HE CONT	RACT
C. THIS SUPPLEMENTAL AGREEMEN	T IS ENTERED	INTO PURSUANT TO AU	THORI	TY OF:		
D. OTHER (Specify type of modification	and authority)					
X Unilateral - FAR 52.	216-22					
E. IMPORTANT: Contractor S is not 14. DESCRIPTION OF AMENDMENT/MODIFICATION (DUNS Number: 800884181		to sign this document and CF section headings, incl		copies to the issuing colicitation/contract subject matter where feasib		
	tem 0001 also in vides fu e task o	, which incre creases the s nding in the rder ceiling	ase: amp: amo of[s the ceiling for line : les on line item 0002 f: unt of $(b)(4)$ for the $(b)(4)$	item rom <mark>(k</mark> exerc	0001 from b)(4) rised
Reason for Modification: Exe Continued						
Except as provided herein, all terms and conditions of th 15A. NAME AND TITLE OF SIGNER (<i>Type or print</i>)	e document refe	erenced in Item 9 A or 10A	16A.	NAME AND TITLE OF CONTRACTING OFFIC		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED	1		ECTAO:	
(Cignoture of porson authorized to sign)				(Signature of Contracting Officer)		1,,

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NAME OF OFFEROR OR CONTRACTOR

EM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	New Total Amount for this Version: (b)(4)				
	New Total Amount for this Award: \$1,337,800.00				
	Obligated Amount for this Modification: (b)(4)	1			
	New Total Obligated Amount for this Award:	1			
	(b)(4)				
	CHANGES FOR LINE ITEM NUMBER: 3				
	[b)(4)				
	Total Amount changed from (b)(4)				
	CHANGES FOR LINE ITEM NUMBER: 2				
	CHANGES FOR BINE FIELD NORDER. 2				
	Quantity changed from (b)(4)				
	2				
	CHANGES FOR LINE ITEM NUMBER: 4				
	Quantity changed from (b)(4)				
	CHANGES FOR LINE ITEM NUMBER: 1				
	(b)(4)				
	Total Amount changed from (b)(4)				
	(b)(4)	┪			
	Obligated Amount for this Modification: (b)(4)				
	NEW ACCOUNTING CODE ADDED:	1			
	Account code:				
	21-22-B-87FM-000B67-2505-2187ME4013-001				
	Beginning FiscalYear 21 Ending Fiscal Year 22				
	Fund (Appropriation) B				
	Budget Organization 87FM				
	Program (PRC) 000B67				
	Budget (BOC) 2505				
	Job # (Site/Project)				
	Cost Organization				
	DCN-LineID 2187ME4013-001				
	Quantity: 0				
	Amount: ((b)(4)				
	Percent: (b)(4)				
	Subject To Funding: N				
	Payment Address:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
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NAME OF OFFEROR OR CONTRACTOR

TEM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	NEW ACCOUNTING CODE ADDED:				
	Account code:				
	21-22-B-05HEL-000BJ7XF5-2505-2105HIX502-001				
	Beginning FiscalYear 21				
	Ending Fiscal Year 22				
	Fund (Appropriation) B				
	Budget Organization 05HEL				
	Program (PRC) 000BJ7XF5				
	Budget (BOC) 2505				
	Job # (Site/Project)				
	Cost Organization				
	DCN-LineID 2105HIX502-001				
	Quantity: 0				
	Amount: (b)(4)				
	Percent: (b)(4)				
	Subject To Funding: N				
	Payment Address:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
	Payment:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
	Period of Performance: 02/01/2020 to 09/30/2022				
	All other terms and conditions remain unchanged.				
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2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE			EQUISITION/PURCHASE REQ. NO.	5. PROJE	ECT NO. (If applicable)
P00007	See Blo	ck 16C	ma nn o	Schedule	L.,	
6. ISSUED BY CODE	CAD		7. A	DMINISTERED BY (If other than Item 6)	CODE	
CAD US Environmental Protection 26 West Martin Luther King D Mail Code: W136 Cincinnati OH 45268-0001						
8. NAME AND ADDRESS OF CONTRACTOR (No., street,	county, State and	ZIP Code)	, , <u> </u>	9A. AMENDMENT OF SOLICITATION NO.		
GREAT LAKES ENVIRONMENTAL CEN Attn: William J Arnold 739 HASTINGS STREET FRAVERSE CITY MI 496863458		c.	(x)	OB. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER N EP-C-16-008 68HERC19F0139 10B. DATED (SEE ITEM 13)	O.	
CODE 800884181	FACILITY COD	E		05/14/2019		
00004101			MEN.	DMENTS OF SOLICITATIONS		
☐ The above numbered solicitation is amended as set fo					adad 🗆	is not extended.
separate letter or electronic communication which included RECEIVED AT THE PLACE DESIGNATED FOR THE OFFER. If by virtue of this amendment you desire to deach letter or electronic communication makes referent 12. ACCOUNTING AND APPROPRIATION DATA (If requise Schedule 13. THIS ITEM ONLY APPLIES TO MINISTER ONLY APPLIES TO	RECEIPT OF Change an offer action the solicite s	FFERS PRIOR TO THE I already submitted , such o ation and this amendment (b)(4	HOUI chang , and)	R AND DATE SPECIFIED MAY RESULT IN REJE ge may be made by letter or electronic communic	ECTION OF ation, prov secified.	F YOUR ided
CHECK ONE A. THIS CHANGE ORDER IS ISSUED FORDER NO. IN ITEM 10A.	PURSUANT TO:	(Specify authority) THE (CHA	NGES SET FORTH IN ITEM 14 ARE MADE IN T	HE CONTF	RACT
B. THE ABOVE NUMBERED CONTRAC appropriation data, etc.) SET FORTH	T/ORDER IS M I IN ITEM 14, PU	ODIFIED TO REFLECT T JRSUANT TO THE AUTH	HE A	ADMINISTRATIVE CHANGES (such as changes of the property OF FAR 43.103(b).	in paying o	office,
C. THIS SUPPLEMENTAL AGREEMEN	IS ENTERED	NTO PURSUANT TO AU	THO	RITY OF:		
D. OTHER (Specify type of modification	and authority)					
X Bilateral - Mutual A	***	of the Part	ies			
<u> </u>				1	n office	
E. IMPORTANT: Contractor ☐ is not 14. DESCRIPTION OF AMENDMENT/MODIFICATION (DUNS Number: 800884181		o sign this document and CF section headings, incl		The copies to the losality		
The purpose of this modification to (b)(4) per sample from (b)(4) samples than Freshwater sample provides funding in the amount fully funds the task order coptional Samples into Freshwater of processing marine samples of processing marine samples are vised Performance Work States (COOR: Kendra Forde Max Expired Continued Except as provided herein, all terms and conditions of the 15A. NAME AND TITLE OF SIGNER (Type or print)	This les, whint of (b)(eiling of ater samples thement.	which increase is of the control of	ch due fic oun Tine s	increases the ceiling fo to the contractor recei antly increased cost. T t for the price differen his modification also se samples to account for amples, in accordance wi oiceApprover: Kendra For	r line ving ring ring ring ring ring ring ring r	e item 0001 more Marine odification which es the ncreased e attached t Invoice
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED	<u> </u>	B. UNITED STATES OF AMERICA		16C. DATE SIGNED
100. CONTINUED OF LINUX		IOO. DATE OIGNED	101	E1	ECTAON NGNATUR	ac
(Signature of person authorized to sign)			1 -	(Signature of Contracting Officer)		10,00,2021

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NAME OF OFFEROR OR CONTRACTOR

EM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
A)	(B)	(C)	(D)	(E)	(F)
	App: Hugh Sullivan				
	LIST OF CHANGES:				
	Reason for Modification: Supplemental Agreement				
	for work within scope				
	New Total Amount for this Version: (b)(4)	+			
	New Total Amount for this Award: (b)(4)	<u> </u> 			
	Obligated Amount for this Modification: (b)(4)	Ц			
	New Total Obligated Amount for this Award: (b)(4)				
	(5)(4)				
	Onsite Contract changed to: N				
	CHANGES FOR LINE ITEM NUMBER: 5				
	Description changed from OPTION B Optional				
	Samples: in accordance with the attached				
	Performance Work Statement, Attachment 1 to this				
	Task Order entitled "National Coastal Condition				
	Assessment 2020 - Benthic Macroinvertebrate				
	Identification"				
	(b)(4)				
	(b)(4) to OPTION B Optional				
	Samples - Freshwater: in accordance with the				
	attached Performance Work Statement, Attachment 1				
	to this Task Order entitled "National Coastal				
	Condition Assessment 2020 - Benthic				
	Macroinvertebrate Identification"				
	1 optional samples priced (b)(4) for				
	a total of (b)(4)				
	Total Amount changed				
	from (b)(4)				
	CHANGES FOR LINE ITEM NUMBER: 4				
	Description changed from OPTION A Samples:				
	Quantity Options in accordance with the attached				
	Performance Work Statement, Attachment 1 to this				
	Task Order entitled "National Coastal Condition				
	Assessment 2020 - Benthic Macroinvertebrate				
	Identification"				
	(b)(4) Ouantity Options, one hundred (b)(4)				
	gaander persone, one namerou				
	optional samples per Quantity Option, for a total of (b)(4) Option A samples.				
	ofton A samples.				
	1 sample = 1 unit. to OPTION A Samples: Quantity				
	Options in accordance with the attached				
	Performance Work Statement, Attachment 1 to this				
	Task Order entitled "National Coastal Condition				
	Assessment 2020 - Benthic Macroinvertebrate				
	Continued				
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CONTINUATION SHEET	EP-C-16-008/68HERC19F0139/P00007	3	6

NAME OF OFFEROR OR CONTRACTOR

EM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	Identification"				
	(b)(4)				
	(b)(4)				
	CHANGES FOR LINE ITEM NUMBER: 6 Description changed from OPTION B Samples: Quantity Options in accordance with the attached Performance Work Statement, Attachment 1 to this Task Order entitled "National Coastal Condition Assessment 2020 - Benthic Macroinvertebrate Identification"				
	(b)(4)				
	1 sample = 1 unit. to OPTION B Samples: Quantity Options in accordance with the attached Performance Work Statement, Attachment 1 to this Task Order entitled "National Coastal Condition Assessment 2020 - Benthic Macroinvertebrate Identification"				
	(b)(4)				
	(b)(4)				
	CHANGES FOR LINE ITEM NUMBER: 1 Description changed from BASE PERIOD: Task Order Ceiling and Funding: Provide services in accordance with the attached Performance Work Statement, Attachment 1 to this Task Order entitled "National Coastal Condition Assessment 2020 - Benthic Macroinvertebrate Identification"				
	to BASE PERIOD: Task Order Ceiling and Funding: Provide services in accordance with the attached Performance Work Statement, Attachment 1 to this Task Order entitled "National Coastal Condition Assessment 2020 - Benthic Macroinvertebrate Identification"				
	Continued				

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NAME OF OFFEROR OR CONTRACTOR

M NO.	SUPPLIES/SERVICES	QUANTITY	UNII	UNIT PRICE	AMOUNT
A)	(B)	(C)	(D)	(E)	(F)
	[d.y/ay				
	(b)(4)				
	[12]				
	Obligated Amount for this Modification: (b)(4)				
	NEW ACCOUNTING CODE ADDED:				
	Account code:				
	21-E1-87FM-000B06XP1-4183-2187ME4044-002				
	Beginning FiscalYear 21				
	Ending Fiscal Year				
	Fund (Appropriation) E1				
	Budget Organization 87FM				
	Program (PRC) 000B06XP1				
	Budget (BOC) 4183				
	Job # (Site/Project)				
	Cost Organization				
	DCN-LineID 2187ME4044-002				
	Quantity: 0				
	Amount: (b)(4)				
	Percent: (b)(4)				
	Subject To Funding: N				
	Payment Address:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts Durham NC 27711				
	Durnam NC 27/11				
	NEW ACCOUNTING CODE ADDED:				
	Account code:				
	21-22-B-87FM-000B89-2505-2187ME4044-001				
	Beginning FiscalYear 21				
	Ending Fiscal Year 22				
	Fund (Appropriation) B				
	Budget Organization 87FM				
	Program (PRC) 000B89				
	Budget (BOC) 2505				
	Job # (Site/Project)				
	Cost Organization				
	DCN-LineID 2187ME4044-001				
	Quantity: 0				
	Amount: (b)(4)				
	Percent: (b)(4)				
	Subject To Funding: N				
	Payment Address:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
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NAME OF OFFEROR OR CONTRACTOR

EM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
	CHANCES FOR LINE THEM NUMBER. 2				
	CHANGES FOR LINE ITEM NUMBER: 3				
	Description changed from OPTION A Optional				
	Samples: in accordance with the attached				
	Performance Work Statement, Attachment 1 to this				
	Task Order entitled "National Coastal Condition				
	Assessment 2020 - Benthic Macroinvertebrate				
	Identification"				
	(b)(4)				
	(b)(4) optional samples priced (b)(4) per sample				
	for a total of (b)(4) to OPTION A Optional				
	Samples - Freshwater: in accordance with the				
	attached Performance Work Statement, Attachment 1				
	to this Task Order entitled "National Coastal				
	Condition Assessment 2020 - Benthic				
	Macroinvertebrate Identification"				
	(b)(4)				
	Total Amount changed				
	(b)(4)				
	Payment:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
	Period of Performance: 02/01/2020 to 09/30/2022				
					[/b\/4\
07	OPTION A Optional Samples - Marine: in				(b)(4)
	accordance with the attached Performance Work				
	Statement, Attachment 1 to this Task Order				
	entitled "National Coastal Condition Assessment				
	2020 - Benthic Macroinvertebrate Identification"				
	(b)(4) optional samples priced(b)(4) per sample				
	$\frac{ (b)(4) }{ (b)(4) }$ per sample for a total of $ (b)(4) $				
	(Option Line Item)				
	150 Days After Award				
	Product/Service Code: R499				
80	OPTION A Samples Marine: Quantity Options in	100	UN		0.0
	accordance with the attached Performance Work				
	Continued				
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NAME OF OFFEROR OR CONTRACTOR

ITEM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	Statement, Attachment 1 to this Task Order entitled "National Coastal Condition Assessment				
	2020 - Benthic Macroinvertebrate Identification"				
	(b)(4)				
	(5)(4)				
	(b)(4)				
	(Option Line Item)				
	400 Days After Award				
	(Not Separately Priced)				
	Product/Service Code: R499				
					(b)(4)
0009	OPTION B Optional Samples - Marine: in accordance with the attached Performance Work				(-)(-)
	Statement, Attachment 1 to this Task Order				
	entitled "National Coastal Condition Assessment				
	2020 - Benthic Macroinvertebrate Identification"				
	(b)(4)				
	100 75 5 75 5 75 5				
	400 Days After Award Product/Service Code: R499				
	30 00 00 000000 000 000 00 00 000000 00				
010	OPTION B Samples: Quantity Options in accordance	(b)(4)			0.00
7010	with the attached Performance Work Statement,		Н		3.00
	Attachment 1 to this Task Order entitled				
	"National Coastal Condition Assessment 2020 - Benthic Macroinvertebrate Identification"				
	(b)(4)				
	(b)(4) (Option Line Item)				
	450 Days After Award				
	(Not Separately Priced)				
	Product/Service Code: R499				
	All other terms and conditions remain unchanged.				

Performance Work Statement Technical Support for National Aquatic Resource Surveys (NARS 2) Task Order 68HERC19F0139TBD

TITLE: National Coastal Condition Assessment 2020 - Benthic Macroinvertebrate

Identification

A. EPA PERSONNEL

Task Order Contracting Officer Representative (TOCOR):

Name: Lareina Guenzel Kendra Forde

Office: Office of Water/Office of Wetlands, Oceans &

Watersheds/Assessment and Watershed Protection

Division/Monitoring Branch

Address: 1200 Pennsylvania Avenue NW (4503T), Washington, DC 20460

Phone: 202-566-04550417

E-mail: <u>Guenzel.lareina@epa.gov</u>Forde.Kendra@epa.gov

Alternate Task Order Contracting Officer Representative (ALT-TOCOR):

Name: Hugh Sullivan

Office: Office of Water/Office of Wetlands, Oceans &

Watersheds/Assessment and Watershed Protection

Division/Monitoring Branch

Address: 1200 Pennsylvania Avenue NW (4503T), Washington, DC 20460

Phone: 202-564-1763

E-mail: sullivan.hugh@epa.gov

B. PERIOD OF PERFORMANCE

February 1, 2020 through September 30, 2022

C. TASK ORDER TYPE

Firm Fixed Price

I. BACKGROUND:

The U.S. EPA, states and other partners are planning the third survey of the nation's estuarine and Great Lake resources to provide regional and national data on their condition. The National Coastal Condition Assessment (NCCA) 2020 is designed to evaluate conditions in the nation's coastal waters. Field crews from EPA, States, Tribes and contractors will collect field samples of benthic macroinvertebrates from bottom substrates from multiple sites. EPA and partners may also collect samples from a smaller number of sites in 2021 as a pilot (up to 100) and sites in the summer of 2022.

EPA arranges for laboratory support for processing benthic samples. States and Tribes can choose to use their own laboratories or EPA's contract laboratory. Because of State, Tribal, and EPA choices, the actual number of samples can vary throughout the season. In addition, there are circumstances in which field crews might not collect samples (hard pan substrate, for example). Considering these aspects, the contractor will receive a minimum of 500 samples for processing through the task order. To allow for the potential of additional samples collected by the survey, Islands, and other studies in 2020 and 2021, the task order contains options for EPA to order up to another 1000 samples (10 options of 100 samples) and up to another 100 samples in smaller options (10 options of 10 samples).

Before the laboratory submits the data to EPA, the analyst who generated the data and an experienced data reviewer must independently check and review the data, as follows:

- The analyst shall review the data to ensure that:
 - o Sample preparation information is correct and complete
 - o Analysis information is correct and complete
 - o The appropriate method and standard operating procedures were followed
 - o Results are correct and complete
 - o Quality control measures were within established limits
 - o Documentation is complete
- The data reviewer shall review the data package to verify that:
 - o Internal QC information is included as appropriate
 - o Taxonomy data are scientifically sound and appropriate
 - o Quality control measures were within established guidelines
 - o Qualitative and quantitative results are correct
 - O Data spreadsheet conforms to EPA data template requirements
 - o Documentation is complete

Accompanying all data submissions, the laboratory shall provide a short narrative that includes the following information:

- Total number of samples included and their sample numbers;
- Discussion of any protocol deviations that may have occurred during sample processing;
- Discussion of QC questions that were encountered and the corrective measures taken;
- Definitions of any laboratory QC codes used in the data;
- Internal QC excursions exceeding established QC requirements.

II. PURPOSE

The purpose of this task order is to identify the taxa of benthic macroinvertebrate communities in samples collected in the NCCA 2020 and related NARS or other studies including the possibility of sampling in 2021 on a smaller number of sites. The types of support required for this project include technical support, sample identifications, transmittal of the results in database format, and a reconciled database at the conclusion of quality control procedures.

III. GOVERNMENT FURNISHED INFORMATION

EPA will arrange for delivery of the samples to the laboratories.

The following documents are references for the task order. They are located in the NCCA 2020 Task Order Information folder at:

https://usepa.sharepoint.com/sites/OW_Community/nars/_layouts/15/start.aspx#/Contracts/Forms/AllItems.aspx.

- 2020 Laboratory Operations Manual (LOM)
- 2020 Field Operations Manual (FOM); and
- Data template (i.e., spreadsheet for reporting laboratory data).

As they become available, the EPA TOCOR will provide the contractor with revisions of relevant documents, including the FOM and LOM, and any other information deemed necessary for the contractor to provide the support for the Performance Work Statement (PWS).

IV. GENERAL REQUIREMENTS

In providing support under the tasks described in Section V, the contractor also shall adhere to the following general requirements:

1. Deliverables (see Contract PWS B.1)

Memoranda shall be placed on company letterhead and the subject line will include the phrase "EPA Contract #".

The contractor shall name all electronic files using a logical abbreviation for the name of the document (e.g., TO14Data), the contractor name, and the date of edits to assist in version control (ex: TO14Data_LABNAME_2020_12_02).

The contractor shall use EPA's templates for reporting the results of the taxonomic analyses for the samples. For any other database or spreadsheet submitted to EPA, the contractor must provide metadata that, at a minimum, identify the fields recorded for each sample, define the codes used for the field, and include the version number and date. The contractor must ensure that all sample results must be linked to EPA site ids and sample ids when submitted.

The contractor shall ensure that documentation is created using Agency standard software formats (e.g., Microsoft Office) to facilitate EPA use and review.

2. <u>Identification at Meetings/Teleconferences (see Contract clause C.2)</u>

Contractor personnel shall always identify themselves as contractor employees by name and organization. Contractor personnel are prohibited from acting as the Agency's official representative. The contractor shall refer any questions relating to the interpretation of EPA policy, guidance, or regulation to the TOCOR.

The contractor shall follow the provision of EPA prescription 1523.703-1, acquisition of environmentally preferable meeting and conference services (May 2007), for the use of offsite commercial facilities for an EPA event, whether the event is a meeting, conference,

training session, or other purpose. Environmental preferability is defined at FAR 2. 10 l, and shall be used when soliciting quotes or offers for meeting /conference services on behalf of the Agency. No single event under this TO is anticipated to exceed \$20,000. The contractor shall immediately notify the EPA Contracting Officer, PO and TOCOR of any anticipated event involving support for a meeting, conference, workshop, symposium, retreat, seminar or training that may potentially incur \$20,000 or more in cost during performance. Conference expenses are all direct and indirect costs paid by the government and include any associated authorized travel and per die m expenses, room charges for official business, audio visual use, light refreshments, registration fees, ground transportation and other expenses as defined by the Federal Travel Regulations. All outlays for conference preparation should be included, but the federal employee time for conference preparation should not be included. After notifying EPA of the potential to reach this threshold, the Contractor shall not proceed with the task(s) until authorize d to do so by the Contracting Officer.

3. As required, the TOCOR shall provide technical direction in accordance with Clause H-12 of the contract, EPAAR 1552.237-71 TECHNICAL DIRECTION (AUG 2009) and the Contract Level PWS.

V. SCOPE OF WORK

The contractor shall provide laboratory support for the sorting, identification, and enumeration of benthic macroinvertebrates as described in the following tasks.

Task 1. Task Order Management and Monthly progress reports (See Contract Attachments 2 and 3; PWS B.2)

The contractor shall manage the Task Order (TO) and submit monthly progress and financial reports prepared and submitted in accordance with the contract clause, Contract Attachment 2, Reports of Work.

- a. Teleconferences: The contractor, and its laboratories, shall participate in EPA's teleconferences about laboratory procedures for receiving, storing, tracking, analyzing, and reporting benthos samples and results. Prior to the shipping of the first specimens in each sampling year, EPA will coordinate and facilitate 1-3 teleconference calls, each to last approximately 1 hour, to review the laboratory method, required reporting elements, data templates, and the relevant requirements in the Quality Assurance Project Plan (QAPP). The participants will include EPA, the contractor's laboratories, subcontract laboratories, and potentially State laboratories. If EPA conducts multiple teleconferences (e.g., due to State laboratory personnel availability), the contractor shall participate in all calls because different issues may arise that would require feedback from the contractor. The goal of the teleconferences is to ensure consensus on the analytical procedures and a schedule for sample processing and reporting. The agenda will include review of the:
 - i. QAPP
 - ii. LOM

- iii. Data template
- iv. Standard Operating Procedures (SOPs)
- v. Taxonomic references
- vi. Training, experience, and proficiency of taxonomists
- vii. Taxonomic reconciliation process

b. Plan and Schedule

"The plan shall describe the contractor's procedures for managing samples throughout the different stage (e.g. delivery to the laboratory sample preparation sample sorting; sample identification; results reported to EPA). The plan shall include a schedule that:

Assumes that EPA will exercise all options (i.e. the plan should address processing time and scheduling on 1500 samples from the 2020 field sampling and 100 samples from 2021)

Specifies preferred number of samples and timing of when the batch laboratory should deliver the sample to the contractor. In developing the delivery schedule, consider:

- a. Because few crews sample early in the season (e.g. May and early June), the batching lab would have relatively few samples to ship to the laborator .
- b. It is not desirable to have many samples at the batching laboratory for a long time. EPA also intends to close the batching laboratory relatively soon after the field season ends (e.g., November 2020; November 2021).
- iii. Projects the number of samples in each of the analysis stages (e.g., receipt, sorting, identification, results submitted to EPA) in a given period of time (e.g., monthly, quarterly);
- iv. Completes all laboratory analyses and all activities from the 2020 field season by August 1, 2021 and at least two months prior to the end of the period of performance for samples collected in 2021; and
- v. Responds to EPA's data questions between August 1, 2021 and September 30, 2021 and during the final two months of the period of performance for samples collected in 2021.

the contractor shall review and if appropriate expand upon and/or confirm the plan and schedule submitted with the proposal.

- c. Status Summaries: Prior to delivering the progress report, the contractor shall provide monthly status summaries. The monthly status summary shall match the time period covered by the progress report. The contractor shall provide Excel spreadsheets with the monthly status summaries that include:
 - i. The number of samples received by the lab (cumulative total and number received during that reporting cycle).
 - ii. The number of samples for which the laboratory has finished each of the analysis stages (cumulative total and number completed during that reporting cycle).

- The number of samples for which the laboratory has submitted complete results (for that sample) to EPA (cumulative total and number submitted during that reporting cycle).
- iv. The taxonomists that performed the identifications. Separately, provide the resume (or cv) for each taxonomist. The contractor only needs to provide the resume once for each taxonomist.
- v. Percent capacity reached in the contract (i.e., number of sample results delivered compared to the maximum number specified in task order when all quantities are exercised); and percent capacity of samples ordered or 'exercised' (i.e. number of samples results delivered compared to the number of samples included in exercised quantities).
- vi. Data for the samples processed, or reconciled, since the previous summary. The contractor shall report the data using EPA's data template, but updated with the new, revised, and reconciled data. In addition, the contractor shall provide a separate case narrative (e.g., emailed Word or pdf file) for the EPA TOCOR to review with the data.
- vii. Filename for each image corresponding to taxon identified in the processed data (task 1.c.v). Separately provide any new image. (The contractor only needs to provide an image for a taxon once.)
- viii. Provide a simple list of the invoiced samples with the EPA sample #, site ID, and visit #. The TOCOR will compare the list with the NCCA master list of samples to verify that every sample has been invoiced one time.
- d. Monthly Progress and Financial Reports: The contractor shall provide a progress and financial report each month that matches the costs in the corresponding invoice.
 - i. The contractor shall provide a progress report each month that includes project status; expenditures to date; number of samples in each processing stage compared to the contractor's plan/schedule; unexpected problems or concerns, including with quality assurance; lessons learned; Quality Assurance / Quality Control (QA/QC) activities; and next steps. The contractor shall prepare and submit the monthly progress reports in accordance with the contract clause, Contract Attachment 2, Reports of Work.
 - ii. The contractor shall prepare and submit the financial reports in accordance with the contract clause, Contract Attachment 2, Reports of Work.
 - iii. For the sample analyses completed during the month and billed in the invoice, the financial report shall identify the sample using its site identification code and EPA sample identification.
 - iv. For the month in which the contractor delivers the final database for Task 4, the contractor shall include the costs for Task 4.
- e. Issues Requiring EPA Resolution: The contractor shall immediately notify the EPA TOCOR of any unexpected problems or concerns, including but not limited to issues with QA/QC, and recommend remedies or corrective actions. Upon receiving written technical direction from the EPA TOCOR, the contractor shall revise its schedule in the technical proposal and respond to any additional comments/concerns from the EPA TOCOR

following submission of the revised plan. The contractor also shall include problems and concerns in the monthly progress report.

Deliverables and Schedule under Task 1:

Subtask	Deliverable	Due
a.	Participation in	Date/time per written technical
	teleconferences	direction from EPA TOCOR based
		upon contractor's recommended
		dates/times
b.	Plan and Schedule	Within two months of award
	(expanded or confirmation	
	that the original is correct)	
c.	Status updates with data in	Monthly
	spreadsheet, sample list,	107
	and separate case narrative.	
c.	Resumes for taxonomists	Upon the taxonomist's assignment to
	attached to an email	task order
d.	Progress and financial	Monthly
	reports in electronic format	110
e.	Email	Immediately when issue identified.
e.	Revised technical plan and	Revisions within 5 working days per
	schedule request (as	written technical direction and/or
	necessary)	within 5 days of comments from
	·	TOCOR.

Task 2. Quality Assurance (Contract PWS B.3)

Quality Assurance (QA) is an important component of EPA's work to assure that minimum quality standards are attained. The contractor shall address the QA requirements of this task order by adhering to the requirements and procedures identified in:

- The contractor's Quality Management Plan incorporated into this NARS 2 contract;
- NCCA Survey QA documents how quality assurance and quality control will be applied
 to the collection of environmental data for the survey. The documents relevant to support
 in this task order are:
 - Quality Assurance Project Plan (QAPP)
 - Laboratory Operations Manual (LOM)

The NCCA 2020 quality documents will evolve throughout the task order. The contractor shall notify the EPA TOCOR immediately if it identifies areas where its previous activities are not consistent with the revisions made to the QAPP and LOM. The EPA TOCOR will determine whether any modifications to the contractor's previous activities will be necessary, which may require a modification to the task order by the EPA Contracting Officer (CO).

- a. The contractor shall demonstrate a commitment to adhere to the QAPP, the contractor's Quality Assurance Official (QAO) and each laboratory's QAO shall sign the page "Review & Distribution Acknowledgment and Commitment to Implement" in the introductory section of the QAPP. The contractor shall distribute the version of the QAPP and LOM available at award of the task order, and any additional revisions approved by the EPA QAO, throughout the contractor's organization, including subcontractors and consultants. If EPA distributes an updated version of the LOM and states that it contains a "significant change" relevant to taxonomic analyses, the contractor shall acknowledge, in writing (e.g., Email), that it has received and distributed the revised LOM to the appropriate personnel.
- b. The contractor shall demonstrate its implementation of QA in performing the other tasks in this Performance Work Statement. The contractor shall document its QA activities as follows:
 - Standard Operating Procedures (SOPs) and any other quality assurance documentation developed or adopted by the contractor's laboratory for use in performing the required analyses. If the contractor does not develop or modify them as part of the costs incurred by the task order, the contractor may claim the SOPs to be proprietary.
 - ii. Reports of relevant QA activities in any deliverable. All QA documentation prepared under the task order shall be considered non-proprietary.
 - iii. Monthly reports of QA activities performed during implementation of this task order. These monthly QA reports shall identify QA activities performed to support implementation of this task order, problems encountered, deviations from the QAPP, and corrective actions taken. The contractor shall include the QA report with the monthly progress report.
- c. The contractor shall demonstrate its ability to conform to NCCA measurement quality objectives. The contractor shall, at a minimum, ensure that the data meet the measurement quality objectives in the QAPP.
- d. The EPA will assess Contractor performance in accordance with the Quality Assurance Surveillance Plan (QASP), paragraph VII of this PWS.

Deliverables and Schedule under Task 2:

Denverables and Schedule under Task 2:				
Subtask	Deliverable	Due		
a.	Original QAPP signature page	No later than 5 working days after		
		effective date of task order or 5		
		working days after receiving the		
		EPA approved QAPP if not		
		approved at effective date		

Subtask	Deliverable	Due
	Email acknowledgement of LOM with	No later than 10 working days
	"significant change"	after receiving revised LOM
	Laboratory SOPs	No later than 5 working days after
	~	effective date of task order. If the
		laboratory modified the SOPs
		during the performance period,
		provide the final versions 5
		working days before the end of the
		performance period. Otherwise,
		provide an email stating that the
		SOPs have remained unchanged
		throughout the task order.
	Documentation of QA activities	With deliverables
	Taxonomist resume	When assigned to task order
	Bench sheets with QC Officer review	With monthly progress report
b.	Monthly reports of QA activities	With monthly progress report
	during months when samples are	
	delivered and/or processed	
c.	Data and QC elements identified in	With database
	procedure	

Task 3. Benthic Analysis (Contract PWS B.3., C.4)

The contractor shall strictly follow ALL benthic macroinveretebrate procedures in the appropriate QAPP and LOM for sorting, counting and identifying benthic macroinvertebrate organisms in the samples. All samples shall be fully sorted, identified and enumerated. The use of subsampling procedures is not authorized for this task order. The contractor shall provide expert taxonomists for identifying marine and Great Lake samples, including those who have appropriate expertise in identifying taxa from the Northeast, Mid-Atlantic, Southeast, Gulf of Mexico and West Coasts of the continental U.S.

Of the total samples expected to be submitted for taxonomic identification under this task order, approximately 75 to 78% of the samples are expected to be marine/estuarine samples and approximately 22 to 25% of the samples are expected to be freshwater. The contractor may choose to submit a single per-sample cost for all samples, or may choose to submit separate per-sample costs for estuarine/marine samples and freshwater Great Lakes samples. The total difference for already processed/invoiced samples should also be included.

In order to guide the contractor in proposing per-sample costs, the following summary statistics of benthic macroinvertebrates from the 2015 NCCA are provided:

Estuarine /marine Sample Summary	Species Count per sample	Individual organism Count
n = 703		per sample
<u>average</u>	<u>27.88336</u>	<u>532.5078</u>

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<u>minimum</u>	1	0
<u>Q1</u>	<u>10</u>	<u>67</u>
<u>median</u>	<u>21</u>	<u>179</u>
<u>Q3</u>	<u>37</u>	<u>487</u>
<u>maximum</u>	<u>186</u>	<u>22535</u>

Great Lakes Sample	Species Count per	<u>Individual</u>
<u>Summary</u>	sample	organism Count
n = 296		per sample
<u>average</u>	20.30743	<u>280.7534</u>
min_	1	1
<u>Q1</u>	<u>11</u>	<u>51.25</u>
<u>Median</u>	<u>18</u>	<u>150.5</u>
<u>Q3</u>	<u>27</u>	<u>350</u>
<u>max</u>	<u>86</u>	<u>3747</u>



If the contractor identifies a situation requiring a minor change in the protocol, the EPA TOCOR must approve the deviation before the contractor can implement the change.

In addition to the delivery of data addressed in Task 1, the contractor shall provide the deliverables resulting from the following activities:

- a. Log each sample and record the condition of the sample into the NARS Information Management (IM) provided spreadsheet and email to NARS IM; contact information will be provided by the TOCOR before sampling begins) within 24 (clock) hours of the sample arriving at the laboratory. If the sample does not arrive when expected, the contractor shall immediately notify the EPA TOCOR or her designee.
- b. Provide an email to the EPA TOCOR with any recommended changes to keys and references.

c. Develop a reference library using preserved specimens and digital photo imagery (see digital specifications in the LOM). In the library, the contractor shall include one of each unique type of organism identified, as described in the LOM. The contractor shall provide access to the specimens and a copy of the digital library to EPA. Note, EPA may identify some samples (e.g., from National Park Service lands) that must be returned; the contractor shall not include specimens from these samples in the reference library.

d. Retain:

- o Samples and sorting residuals for the period specified in the laboratory method.
- Original records, including bench notebooks and the reference library, for a
 minimum of ten (10) years from the date that EPA publishes the NCCA 2020 data
 publicly. If EPA determines that transfer to another location is necessary, EPA
 will make separate arrangements (e.g., task order modification, purchase order)
 with the contractor for any necessary packaging and shipping expenses.
 Otherwise, at the end of the retention period, the contractor shall follow its
 internal protocols for disposal.
- e. Unless the TOCOR grants an exception, the contractor shall not publish findings based upon work conducted under this task order. This restriction shall remain in effect until EPA provides public access to the data.

Deliverables and Schedule under Task 3:

Subtask	Deliverable	Due
a.	Sample logged into NARS IM system	Within 24 (clock) hours of
	Made Crisis de 1507	sample receipt
a.	Email identifying missing sample	Immediately if sample does not
	65 650° KM1 690.	arrive when expected
b.	Email with recommended changes to	Within 5 working days of
	keys and references	identified need for change.
c.	Access to specimens in reference library	Upon EPA TOCOR's written
	13.00	request via technical direction.
c.	Copy of digital library by email, FTP	With final database. Interim
	transfer, or SharePoint upload	copies within 10-15 days per
		written technical direction from
		the EPA TOCOR.
d.	Access to laboratory notebooks	Upon EPA TOCOR's written
	year .	request via technical direction.

Task 4. Final Database (Contract PWS B.1, B.3, C.4)

- a. The contractor shall provide revised and final databases for the results of the benthic analyses from samples collected in 2020 as described in Task 1b. The contractor shall provide:
 - Responses to EPA's questions about the data, as conveyed by the EPA TOCOR's technical direction.

- ii. Revised databases per written technical direction describing required changes based upon EPA's review of the data and reconciliation activities.
- iii. Final database that incorporates revisions identified by the EPA TOCOR's technical direction.
- b. For samples collected in 2021, the contractor shall provide a compiled, but separate, dataset and will answer EPA questions during the last two months of the period of performance.

Deliverables and Schedule under Task 4:

	Denverables and Schedule under Task 4:				
Subtask	Deliverable	Due			
a.i	Email with responses to data questions	1-5 working days per technical			
		direction			
a.ii and	Revised databases and emails that	10 working days after receiving			
b	summarize the changes	the EPA TOCOR's written			
		technical direction. The			
		contractor shall assume five			
		revisions and associated			
		summaries will be required as a			
		result of EPA's review of the			
		data during the periods identified			
		in Task 1b			
a.iii.	Final database	10 working days after receiving			
		written technical direction; but			
		no later than 5 working days			
		prior September 30, 2021 for			
		2020 samples			
Ъ	Compiled dataset	10 working days after receiving			
		written technical direction; but			
		no later than 5 working days			
		prior to the end of the period of			
		performance			

VI. TRAVEL

EPA does not anticipate that any travel will be necessary to perform the tasks in the Performance Work Statement.

VII. QUALITY ASSURANCE SURVEILLANCE PLAN

EPA will judge performance using the following Quality Assurance Surveillance Plan (QASP).

Performance Requirement	Measurable Performance Standards	Surveillance Method	Incentives/Disincentives
Management and Communications:	Any issue adversely impacting project schedules, cost, time or quality shall be	EPA TOCOR will identify unreported issues.	Two or more incidents where the contractor:

Performance Requirement	Measurable Performance Standards	Surveillance Method	Incentives/Disincentives
The Contractor shall maintain contact with the EPA TOCOR throughout the performance of the task order and shall immediately bring potential problems to the attention of the EPA TOCOR. In cases where issues have a direct impact on project schedules, cost, time, or quality, the contractor shall provide options for EPA's consideration on resolving the issues or mitigating their impacts.	brought to the attention of the EPA TOCOR within 3- working days of occurrence.		Does not provide timely notification; or Created a severe adverse situation will be considered unsatisfactory performance and will be reported as such in the CPARS Performance Evaluation System under the category of Management. Fewer than two incidents where the contractor does not meet the measurable performance standard will be considered acceptable performance and will be reported as such in the CPARS Performance Evaluation System.
Timeliness: Data (Task 1) and databases (Task 4) shall be delivered in accordance with the schedule developed in PWS Task 1. After EPA accepts the final schedule in Task 1, it is unlikely that EPA will be willing to extend the schedule due to any factors under the contractor's control (e.g., to complete work under another contract).	No more than 25% of the data for Task 1 shall be submitted more than 3 working days past the date in the accepted schedule. None of the data for Task 1 shall be submitted more than 40 working days past the date in the accepted schedule. No more than 10% of the revised databases (Task 4) shall be submitted more than 3 working days past the date in the accepted schedule. No delays in submitting the final database (Task 4) by the "no later than" date in the PWS.	100% of the progress reports, data submissions, and databases will be reviewed by the EPA TOCOR monthly to compare actual delivery dates against those in the approved schedule from Task 1 and Task 4.	Unsatisfactory rating under the category of Schedule in CPARS when the contractor does not meet the measurable performance standards during the applicable period of performance.
Technical Effort: The Contractor shall assign appropriately leveled and skilled personnel to all tasks; and abide by the contractor's QMP, the NCCA QAPP, and the benthics method.	No more than 25% of reviewed deliverables and data shall require revisions to meet the requirements of the QMP, NCCA QAPP, data templates, and benthics method. None of the samples in the final database (Task V.4) shall have other than full sorts and counts.	100% of the data, taxonomists' resumes, and training certifications (per Task 1) will be reviewed by the EPA TOCOR to identify noncompliance issues with the QMP, NCCA QAPP, and benthics method. Final database will be reviewed for full sort and count information.	Unsatisfactory rating under the category of Quality in CPARS when the contractor does not meet the measurable performance standards during an applicable period of performance.

Performance Requirement	Measurable Performance Standards	Surveillance Method	Incentives/Disincentives
	All of the assigned staff must meet the LOM requirements for their assigned duties.		

AMENDMENT OF SOLICITATION/MODIFICA	ATION OF CO	ONTRACT		CONTRACT ID CODE	PA	GE OF	PAGES
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE	DATE	4. REQ	UISITION/PURCHASE REQ. NO.	5. PROJE	ECT NO.	. (If applicable)
P00008	 See Bloo	ck 16C	PR-O	W-22-00057			
6. ISSUED BY CODE	CAD		7. ADN	INISTERED BY (If other than Item 6)	CODE		
CAD US Environmental Protection 26 West Martin Luther King D Mail Code: W136 Cincinnati OH 45268-0001	_				-		
8. NAME AND ADDRESS OF CONTRACTOR (No., street GREAT LAKES ENVIRONMENTAL CE Attn: William J Arnold 739 HASTINGS STREET TRAVERSE CITY MI 496863458	1776		9B. × 10A E E	AMENDMENT OF SOLICITATION NO. DATED (SEE ITEM 11) . MODIFICATION OF CONTRACT/ORDER NOC-16-008 HERC19F0139 . DATED (SEE ITEM 13)	D.		
CODE 800884181	FACILITY COD	E	0	5/14/2019			
	11. THIS ITE	EM ONLY APPLIES TO AN	MENDM	ENTS OF SOLICITATIONS			
separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified. 12. ACCOUNTING AND APPROPRIATION DATA (If required) See Schedule 13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14. CHECK ONE A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.							
	CT/ORDER IS MO I IN ITEM 14, PU	ODIFIED TO REFLECT TI	HE ADI ORITY	MINISTRATIVE CHANGES (such as changes in OF FAR 43.103(b).			
D. OTHER (Specify type of modification	and authority)						
X Bilateral - Mutual Agreement of the Parties							
E. IMPORTANT: Contractor is not	100	o sign this document and		1copies to the issuing	office.		
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) DUNS Number: 800884181 The purpose of this modification is to revise the Performance Work Statement, in accordance with Attachment 1, revised Performance Work Statement and to extend the Period of Performance end date from 09/30/2022 to 05/15/2023 at no additional cost to the government. DOCOR: Kendra Forde Max Expire Date: 05/15/2023 InvoiceApprover: Kendra Forde Alt Invoice App: Hugh Sullivan LIST OF CHANGES: Reason for Modification: Supplemental Agreement for work within scope Period Of Performance End Date changed from 30-SEP-22 to 15-MAY-23 Total Amount for this Modification: \$0.00 Maximum Potential Expiration Date changed to: 05/15/2023 Continued Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect. 15A. NAME AND TITLE OF SIGNER (Type or print)							
Sandra Stargardt-Licis 15B. CONTRACTOR/OFFEROR 15C. DATE SIGNED 16B. UNITED STATES OF AMERICA 16C. DATE SIGNED 11/09/2021							
(Signature of person authorized to sign)			1	(Signature of Contracting Officer)		1 -	

 CONTINUATION SHEET
 REFERENCE NO. OF DOCUMENT BEING CONTINUED
 PAGE
 OF

 EP-C-16-008/68HERC19F0139/P00008
 2
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NAME OF OFFEROR OR CONTRACTOR

TEM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	Payment:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01) 109 TW Alexander Drive				
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
	Period of Performance: 02/01/2020 to 05/15/2023				
	All other terms and conditions remain unchanged.				
			ı		

Performance Work Statement Technical Support for National Aquatic Resource Surveys (NARS 2) Task Order 68HERC19F0139

TITLE: National Coastal Condition Assessment 2020 - Benthic Macroinvertebrate

Identification

A. EPA PERSONNEL

Task Order Contracting Officer Representative (TOCOR):

Name: Kendra Forde

Office: Office of Water/Office of Wetlands, Oceans &

Watersheds/Assessment and Watershed Protection

Division/Monitoring Branch

Address: 1200 Pennsylvania Avenue NW (4503T), Washington, DC 20460

Phone: 202-566-0417

E-mail: forde.kendra@epa.gov

Alternate Task Order Contracting Officer Representative (ALT-TOCOR):

Name: **Hugh Sullivan**

Office: Office of Water/Office of Wetlands, Oceans &

Watersheds/Assessment and Watershed Protection

Division/Monitoring Branch

Address: 1200 Pennsylvania Avenue NW (4503T), Washington, DC 20460

Phone: 202-564-1763

E-mail: sullivan.hugh@epa.gov

B. PERIOD OF PERFORMANCE

February 1, 2020 through September 30, 2022May 15, 2023

C. TASK ORDER TYPE

Firm Fixed Price

I. BACKGROUND:

The U.S. EPA, states and other partners are planning the third survey of the nation's estuarine and Great Lake resources to provide regional and national data on their condition. The National Coastal Condition Assessment (NCCA) 2020 is designed to evaluate conditions in the nation's coastal waters. Field crews from EPA, States, Tribes and contractors will collect field samples of benthic macroinvertebrates from bottom substrates from multiple sites. EPA and partners may also collect samples from a smaller number of sites in 2021 as a pilot (up to 100) and sites in the summer of 2022.

Additionally as a result of Covid-19 related delays, up to 37 of the samples originally planned for 2020-2021 will be collected in the summer of 2022 (all of these will be Great Lakes samples).

EPA arranges for laboratory support for processing benthic samples. States and Tribes can choose to use their own laboratories or EPA's contract laboratory. Because of State, Tribal, and EPA choices, the actual number of samples can vary throughout the season. In addition, there are circumstances in which field crews might not collect samples (hard pan substrate, for example). Considering these aspects, the contractor will receive a minimum of 500 samples for processing through the task order. To allow for the potential of additional samples collected by the survey, Islands, and other studies in 2020 and 2021 and 2022, the task order contains options for EPA to order up to another 1000 samples (10 options of 100 samples) and up to another 100 samples in smaller options (10 options of 10 samples).

Before the laboratory submits the data to EPA, the analyst who generated the data and an experienced data reviewer must independently check and review the data, as follows:

- The analyst shall review the data to ensure that:
 - o Sample preparation information is correct and complete
 - o Analysis information is correct and complete
 - o The appropriate method and standard operating procedures were followed
 - Results are correct and complete
 - o Quality control measures were within established limits
 - o Documentation is complete
- The data reviewer shall review the data package to verify that:
 - o Internal QC information is included as appropriate
 - o Taxonomy data are scientifically sound and appropriate
 - o Quality control measures were within established guidelines
 - Qualitative and quantitative results are correct
 - o Data spreadsheet conforms to EPA data template requirements
 - o Documentation is complete

Accompanying all data submissions, the laboratory shall provide a short narrative that includes the following information:

- Total number of samples included and their sample numbers;
- Discussion of any protocol deviations that may have occurred during sample processing;
- Discussion of QC questions that were encountered and the corrective measures taken;
- Definitions of any laboratory QC codes used in the data;
- Internal QC excursions exceeding established QC requirements.

II. PURPOSE

The purpose of this task order is to identify the taxa of benthic macroinvertebrate communities in samples collected in the NCCA 2020 and related NARS or other studies including the possibility of sampling in 2021 on a smaller number of sites. The types of support required for this project include technical support, sample identifications, transmittal of the results in database format, and a reconciled database at the conclusion of quality control procedures.

III. GOVERNMENT FURNISHED INFORMATION

EPA will arrange for delivery of the samples to the laboratories.

The following documents are references for the task order. They are located in the NCCA 2020 Task Order Information folder at:

https://usepa.sharepoint.com/sites/OW_Community/nars/_layouts/15/start.aspx#/Contracts/Forms/AllItems.aspx.

- 2020 Laboratory Operations Manual (LOM)
- 2020 Field Operations Manual (FOM); and
- Data template (i.e., spreadsheet for reporting laboratory data).

As they become available, the EPA TOCOR will provide the contractor with revisions of relevant documents, including the FOM and LOM, and any other information deemed necessary for the contractor to provide the support for the Performance Work Statement (PWS).

IV. GENERAL REQUIREMENTS

In providing support under the tasks described in Section V, the contractor also shall adhere to the following general requirements:

1. <u>Deliverables (see Contract PWS B.1)</u>

Memoranda shall be placed on company letterhead and the subject line will include the phrase "EPA Contract #".

The contractor shall name all electronic files using a logical abbreviation for the name of the document (e.g., TO14Data), the contractor name, and the date of edits to assist in version control (ex: TO14Data_ LABNAME_2020_12_02).

The contractor shall use EPA's templates for reporting the results of the taxonomic analyses for the samples. For any other database or spreadsheet submitted to EPA, the contractor must provide metadata that, at a minimum, identify the fields recorded for each sample, define the codes used for the field, and include the version number and date. The contractor must ensure that all sample results must be linked to EPA site ids and sample ids when submitted.

The contractor shall ensure that documentation is created using Agency standard software formats (e.g., Microsoft Office) to facilitate EPA use and review.

2. Identification at Meetings/Teleconferences (see Contract clause C.2)

Contractor personnel shall always identify themselves as contractor employees by name and organization. Contractor personnel are prohibited from acting as the Agency's official representative. The contractor shall refer any questions relating to the interpretation of EPA policy, guidance, or regulation to the TOCOR.

The contractor shall follow the provision of EPA prescription 1523.703-1, acquisition of environmentally preferable meeting and conference services (May 2007), for the use of offsite commercial facilities for an EPA event, whether the event is a meeting, conference,

training session, or other purpose. Environmental preferability is defined at FAR 2. 10 l, and shall be used when soliciting quotes or offers for meeting /conference services on behalf of the Agency. No single event under this TO is anticipated to exceed \$20,000. The contractor shall immediately notify the EPA Contracting Officer, PO and TOCOR of any anticipated event involving support for a meeting, conference, workshop, symposium, retreat, seminar or training that may potentially incur \$20,000 or more in cost during performance. Conference expenses are all direct and indirect costs paid by the government and include any associated authorized travel and per die m expenses, room charges for official business, audio visual use, light refreshments, registration fees, ground transportation and other expenses as defined by the Federal Travel Regulations. All outlays for conference preparation should be included, but the federal employee time for conference preparation should not be included. After notifying EPA of the potential to reach this threshold, the Contractor shall not proceed with the task(s) until authorize d to do so by the Contracting Officer.

3. As required, the TOCOR shall provide technical direction in accordance with Clause H-12 of the contract, EPAAR 1552.237-71 TECHNICAL DIRECTION (AUG 2009) and the Contract Level PWS.

V. SCOPE OF WORK

The contractor shall provide laboratory support for the sorting, identification, and enumeration of benthic macroinvertebrates as described in the following tasks.

Task 1. Task Order Management and Monthly progress reports (See Contract Attachments 2 and 3; PWS B.2)

The contractor shall manage the Task Order (TO) and submit monthly progress and financial reports prepared and submitted in accordance with the contract clause, Contract Attachment 2, Reports of Work.

- a. Teleconferences: The contractor, and its laboratories, shall participate in EPA's teleconferences about laboratory procedures for receiving, storing, tracking, analyzing, and reporting benthos samples and results. Prior to the shipping of the first specimens in each sampling year, EPA will coordinate and facilitate 1-3 teleconference calls, each to last approximately 1 hour, to review the laboratory method, required reporting elements, data templates, and the relevant requirements in the Quality Assurance Project Plan (QAPP). The participants will include EPA, the contractor's laboratories, subcontract laboratories, and potentially State laboratories. If EPA conducts multiple teleconferences (e.g., due to State laboratory personnel availability), the contractor shall participate in all calls because different issues may arise that would require feedback from the contractor. The goal of the teleconferences is to ensure consensus on the analytical procedures and a schedule for sample processing and reporting. The agenda will include review of the:
 - i. QAPP
 - ii. LOM

- iii. Data template
- iv. Standard Operating Procedures (SOPs)
- v. Taxonomic references
- vi. Training, experience, and proficiency of taxonomists
- vii. Taxonomic reconciliation process
- b. Plan and Schedule: The contractor (note, EPA is not requesting an updated plan and schedule based on the revisions in Task 4 for this modification; see Task 4 for changes/additions to data delivery): The contractor

The plan shall describe the contractor's procedures for managing samples throughout the different stage (e.g. delivery to the laboratory sample preparation sample sorting; sample identification; results reported to EPA). The plan shall include a schedule that:

Assumes that EPA will exercise all options (i.e. the plan should address processing time and scheduling on 1500 samples from the 2020 field sampling and 100 samples from 2021)

Specifies preferred number of samples and timing of when the batch laboratory should deliver the samples to the contractor. In developing the delivery schedule, consider:

- a. Because few crews sample early in the season (e.g. May and early June), the batching lab would have relatively few samples to ship to the laborator.
- b. It is not desirable to have many samples at the batching laboratory for a long time. EPA also intends to close the batching laboratory relatively soon after the field season ends (e.g., November 2020; November 2021).
- iii. Projects the number of samples in each of the analysis stages (e.g., receipt, sorting, identification, results submitted to EPA) in a given period of time (e.g., monthly, quarterly);
- iv. Completes all laboratory analyses and all activities from the 2020 field season by August 1, 2021 and at least two months prior to the end of the period of performance for samples collected in 2021; and
- v. Responds to EPA's data questions between August 1, 2021 and September 30, 2021 and during the final two months of the period of performance for samples collected in 2021.

the contractor shall review and if appropriate expand upon and/or confirm the plan and schedule submitted with the proposal.

- c. Status Summaries: Prior to delivering the progress report, the contractor shall provide monthly status summaries. The monthly status summary shall match the time period covered by the progress report. The contractor shall provide Excel spreadsheets with the monthly status summaries that include:
 - i. The number of samples received by the lab (cumulative total and number received during that reporting cycle).

- ii. The number of samples for which the laboratory has finished each of the analysis stages (cumulative total and number completed during that reporting cycle).
- iii. The number of samples for which the laboratory has submitted complete results (for that sample) to EPA (cumulative total and number submitted during that reporting cycle).
- iv. The taxonomists that performed the identifications. Separately, provide the resume (or cv) for each taxonomist. The contractor only needs to provide the resume once for each taxonomist.
- v. Percent capacity reached in the contract (i.e., number of sample results delivered compared to the maximum number specified in task order when all quantities are exercised); and percent capacity of samples ordered or 'exercised' (i.e. number of samples results delivered compared to the number of samples included in exercised quantities).
- vi. Data for the samples processed, or reconciled, since the previous summary. The contractor shall report the data using EPA's data template, but updated with the new, revised, and reconciled data. In addition, the contractor shall provide a separate case narrative (e.g., emailed Word or pdf file) for the EPA TOCOR to review with the data.
- vii. Filename for each image corresponding to taxon identified in the processed data (task 1.c.v). Separately provide any new image. (The contractor only needs to provide an image for a taxon once.)
- viii. Provide a simple list of the invoiced samples with the EPA sample #, site ID, and visit #. The TOCOR will compare the list with the NCCA master list of samples to verify that every sample has been invoiced one time.
- d. Monthly Progress and Financial Reports: The contractor shall provide a progress and financial report each month that matches the costs in the corresponding invoice.
 - i. The contractor shall provide a progress report each month that includes project status; expenditures to date; number of samples in each processing stage compared to the contractor's plan/schedule; unexpected problems or concerns, including with quality assurance; lessons learned; Quality Assurance / Quality Control (QA/QC) activities; and next steps. The contractor shall prepare and submit the monthly progress reports in accordance with the contract clause, Contract Attachment 2, Reports of Work.
 - ii. The contractor shall prepare and submit the financial reports in accordance with the contract clause, Contract Attachment 2, Reports of Work.
 - iii. For the sample analyses completed during the month and billed in the invoice, the financial report shall identify the sample using its site identification code and EPA sample identification.
 - iv. For the month in which the contractor delivers the final database for Task 4, the contractor shall include the costs for Task 4.
- e. Issues Requiring EPA Resolution: The contractor shall immediately notify the EPA TOCOR of any unexpected problems or concerns, including but not limited to issues with QA/QC, and recommend remedies or corrective actions. Upon receiving written technical direction from the EPA TOCOR, the contractor shall revise its schedule in the technical proposal and respond to any additional comments/concerns from the EPA TOCOR

following submission of the revised plan. The contractor also shall include problems and concerns in the monthly progress report.

Deliverables and Schedule under Task 1:

Subtask	Deliverable	Due
a.	Participation in	Date/time per written technical
	teleconferences	direction from EPA TOCOR based
		upon contractor's recommended
		dates/times
b.	Plan and Schedule	Within two months of award
	(expanded or confirmation	
	that the original is correct)	
c.	Status updates with data in	Monthly
	spreadsheet, sample list,	
	and separate case narrative.	
c.	Resumes for taxonomists	Upon the taxonomist's assignment to
	attached to an email	task order
d.	Progress and financial	Monthly
	reports in electronic format	
e.	Email	Immediately when issue identified.
e.	Revised technical plan and	Revisions within 5 working days per
	schedule request (as	written technical direction and/or
	necessary)	within 5 days of comments from
		TOCOR.

Task 2. Quality Assurance (Contract PWS B.3)

Quality Assurance (QA) is an important component of EPA's work to assure that minimum quality standards are attained. The contractor shall address the QA requirements of this task order by adhering to the requirements and procedures identified in:

- The contractor's Quality Management Plan incorporated into this NARS 2 contract;
- NCCA Survey QA documents how quality assurance and quality control will be applied
 to the collection of environmental data for the survey. The documents relevant to support
 in this task order are:
 - Quality Assurance Project Plan (QAPP)
 - Laboratory Operations Manual (LOM)

The NCCA 2020 quality documents will evolve throughout the task order. The contractor shall notify the EPA TOCOR immediately if it identifies areas where its previous activities are not consistent with the revisions made to the QAPP and LOM. The EPA TOCOR will determine whether any modifications to the contractor's previous activities will be necessary, which may require a modification to the task order by the EPA Contracting Officer (CO).

- a. The contractor shall demonstrate a commitment to adhere to the QAPP, the contractor's Quality Assurance Official (QAO) and each laboratory's QAO shall sign the page "Review & Distribution Acknowledgment and Commitment to Implement" in the introductory section of the QAPP. The contractor shall distribute the version of the QAPP and LOM available at award of the task order, and any additional revisions approved by the EPA QAO, throughout the contractor's organization, including subcontractors and consultants. If EPA distributes an updated version of the LOM and states that it contains a "significant change" relevant to taxonomic analyses, the contractor shall acknowledge, in writing (e.g., Email), that it has received and distributed the revised LOM to the appropriate personnel.
- b. The contractor shall demonstrate its implementation of QA in performing the other tasks in this Performance Work Statement. The contractor shall document its QA activities as follows:
 - i. Standard Operating Procedures (SOPs) and any other quality assurance documentation developed or adopted by the contractor's laboratory for use in performing the required analyses. If the contractor does not develop or modify them as part of the costs incurred by the task order, the contractor may claim the SOPs to be proprietary.
 - ii. Reports of relevant QA activities in any deliverable. All QA documentation prepared under the task order shall be considered non-proprietary.
 - iii. Monthly reports of QA activities performed during implementation of this task order. These monthly QA reports shall identify QA activities performed to support implementation of this task order, problems encountered, deviations from the QAPP, and corrective actions taken. The contractor shall include the QA report with the monthly progress report.
- c. The contractor shall demonstrate its ability to conform to NCCA measurement quality objectives. The contractor shall, at a minimum, ensure that the data meet the measurement quality objectives in the QAPP.
- d. The EPA will assess Contractor performance in accordance with the Quality Assurance Surveillance Plan (QASP), paragraph VII of this PWS.

Deliverables and Schedule under Task 2:

Subtask	Deliverable	Due
a.	Original QAPP signature page	No later than 5 working days after
		effective date of task order or 5
		working days after receiving the
		EPA approved QAPP if not
		approved at effective date

Subtask	Deliverable	Due
	Email acknowledgement of LOM with	No later than 10 working days
	"significant change"	after receiving revised LOM
	Laboratory SOPs	No later than 5 working days after
		effective date of task order. If the
		laboratory modified the SOPs
		during the performance period,
		provide the final versions 5
		working days before the end of the
		performance period. Otherwise,
		provide an email stating that the
		SOPs have remained unchanged
		throughout the task order.
	Documentation of QA activities	With deliverables
	Taxonomist resume	When assigned to task order
	Bench sheets with QC Officer review	With monthly progress report
b.	Monthly reports of QA activities	With monthly progress report
	during months when samples are	
	delivered and/or processed	
c.	Data and QC elements identified in	With database
	procedure	

Task 3. Benthic Analysis (Contract PWS B.3., C.4)

The contractor shall strictly follow ALL benthic macroinveretebrate procedures in the appropriate QAPP and LOM for sorting, counting and identifying benthic macroinvertebrate organisms in the samples. All samples shall be fully sorted, identified and enumerated. The use of subsampling procedures is not authorized for this task order. The contractor shall provide expert taxonomists for identifying marine and Great Lake samples, including those who have appropriate expertise in identifying taxa from the Northeast, Mid-Atlantic, Southeast, Gulf of Mexico and West Coasts of the continental U.S.

Of the total samples expected to be submitted for taxonomic identification under this task order, approximately 75 to 78% of the samples are expected to be marine/estuarine samples and approximately 22 to 25% of the samples are expected to be freshwater. The contractor may choose to submit a single per-sample cost for all samples, or may choose to submit separate per-sample costs for estuarine/marine samples and freshwater Great Lakes samples. The total difference for already processed/invoiced samples should also be included.

In order to guide the contractor in proposing per-sample costs, the following summary statistics of benthic macroinvertebrates from the 2015 NCCA are provided:

Estuarine /marine	Species Count per	Individual
Sample Summary	sample	organism Count
n = 703		per sample
average	27.88336	532.5078

minimum	1	0
Q1	10	67
median	21	179
Q3	37	487
maximum	186	22535

Great Lakes Sample	Species Count per	Individual
Summary	sample	organism Count
n = 296		per sample
average	20.30743	280.7534
min	1	1
Q1	11	51.25
Median	18	150.5
Q3	27	350
max	86	3747

If the contractor identifies a situation requiring a minor change in the protocol, the EPA TOCOR must approve the deviation before the contractor can implement the change.

In addition to the delivery of data addressed in Task 1, the contractor shall provide the deliverables resulting from the following activities:

- a. Log each sample and record the condition of the sample into the NARS Information Management (IM) provided spreadsheet and email to NARS IM; contact information will be provided by the TOCOR before sampling begins) within 24 (clock) hours of the sample arriving at the laboratory. If the sample does not arrive when expected, the contractor shall immediately notify the EPA TOCOR or her designee.
- b. Provide an email to the EPA TOCOR with any recommended changes to keys and references.

c. Develop a reference library using preserved specimens and digital photo imagery (see digital specifications in the LOM). In the library, the contractor shall include one of each unique type of organism identified, as described in the LOM. The contractor shall provide access to the specimens and a copy of the digital library to EPA. Note, EPA may identify some samples (e.g., from National Park Service lands) that must be returned; the contractor shall not include specimens from these samples in the reference library.

d. Retain:

- o Samples and sorting residuals for the period specified in the laboratory method.
- Original records, including bench notebooks and the reference library, for a minimum of ten (10) years from the date that EPA publishes the NCCA 2020 data publicly. If EPA determines that transfer to another location is necessary, EPA will make separate arrangements (e.g., task order modification, purchase order) with the contractor for any necessary packaging and shipping expenses. Otherwise, at the end of the retention period, the contractor shall follow its internal protocols for disposal.
- e. Unless the TOCOR grants an exception, the contractor shall not publish findings based upon work conducted under this task order. This restriction shall remain in effect until EPA provides public access to the data.

Deliverables and Schedule under Task 3:

Subtask	Deliverable	Due
a.	Sample logged into NARS IM system	Within 24 (clock) hours of
		sample receipt
a.	Email identifying missing sample	Immediately if sample does not
		arrive when expected
b.	Email with recommended changes to	Within 5 working days of
	keys and references	identified need for change.
c.	Access to specimens in reference library	Upon EPA TOCOR's written
		request via technical direction.
c.	Copy of digital library by email, FTP	With final database. Interim
	transfer, or SharePoint upload	copies within 10-15 days per
		written technical direction from
		the EPA TOCOR.
d.	Access to laboratory notebooks	Upon EPA TOCOR's written
		request via technical direction.

Task 4. Final Database (Contract PWS B.1, B.3, C.4)

- a. The contractor shall provide revised and final databases for the results of the benthic analyses from samples collected in 2020 as described in Task 1b. The contractor shall provide:
 - i. Responses to EPA's questions about the data, as conveyed by the EPA TOCOR's technical direction.

- ii. Revised databases per written technical direction describing required changes based upon EPA's review of the data and reconciliation activities.
- iii. Final database that incorporates revisions identified by the EPA TOCOR's technical direction.
- b. For samples collected in 2021, the contractor shall provide a compiled, but separate, dataset by July 31, 2022 and will answer EPA questions during in August. The contractor shall provide a final dataset that incorporates revisions identified by the last two months of the period of performance EPA TOCOR no later than August 31, 2022.
- c. For samples collected in 2022, the contractor shall provide a compiled, but separate dataset by April 1, 2023 and respond to EPA questions during April. The contractor shall provide a final dataset that incorporates revisions identified by the EPA TOCOR no later than May 1, 2023.

Deliverables and Schedule under Task 4:

Subtask	Deliverable Deliverable	Due
a.i	Email with responses to data questions	1-5 working days per technical direction
a.ii and b	Revised databases and emails that summarize the changes	10 working days after receiving the EPA TOCOR's written technical direction. The contractor shall assume five revisions and associated summaries will be required as a result of EPA's review of the data during the periods identified in Task 1b
a.iii.	Final database	10 working days after receiving written technical direction; but no later than 5 working days prior September 30, 2021 for 2020 samples
b	Compiled dataset	10 working days after receiving written technical direction; but no later than 5 working days prior to the end of the period of performance August 31, 2022
C	Compiled dataset	10 working days after receiving written technical direction; but no later than May 1, 2023

VI. TRAVEL

EPA does not anticipate that any travel will be necessary to perform the tasks in the Performance

VII. QUALITY ASSURANCE SURVEILLANCE PLAN

EPA will judge performance using the following Quality Assurance Surveillance Plan (QASP).

Performance Requirement	Measurable Performance Standards	Surveillance Method	Incentives/Disincentives
Management and Communications:	Any issue adversely impacting project schedules, cost, time or quality shall be	EPA TOCOR will identify unreported issues.	Two or more incidents where the contractor:
Performance Requirement	Measurable Performance Standards	Surveillance Method	Incentives/Disincentives
The Contractor shall maintain contact with the EPA TOCOR throughout the performance of the task order and shall immediately bring potential problems to the attention of the EPA TOCOR. In cases where issues have a direct impact on project schedules, cost, time, or quality, the contractor shall provide options for EPA's consideration on resolving the issues or mitigating their impacts.	brought to the attention of the EPA TOCOR within 3-working days of occurrence.		Does not provide timely notification; or Created a severe adverse situation will be considered unsatisfactory performance and will be reported as such in the CPARS Performance Evaluation System under the category of Management. Fewer than two incidents where the contractor does not meet the measurable performance standard will be considered acceptable performance and will be reported as such in the CPARS Performance Evaluation System.
Timeliness: Data (Task 1) and databases (Task 4) shall be delivered in accordance with the schedule developed in PWS Task 1. After EPA accepts the final schedule in Task 1, it is unlikely that EPA will be willing to extend the schedule due to any factors under the contractor's control (e.g., to complete work under another contract).	 No more than 25% of the data for Task 1 shall be submitted more than 3 working days past the date in the accepted schedule. None of the data for Task 1 shall be submitted more than 40 working days past the date in the accepted schedule. No more than 10% of the revised databases (Task 4) shall be submitted more than 3 working days past the date in the accepted schedule. No delays in submitting the final database (Task 4) by the "no later than" date in the PWS. 	100% of the progress reports, data submissions, and databases will be reviewed by the EPA TOCOR monthly to compare actual delivery dates against those in the approved schedule from Task 1 and Task 4.	Unsatisfactory rating under the category of Schedule in CPARS when the contractor does not meet the measurable performance standards during the applicable period of performance.

Technical Effort: The Contractor shall assign appropriately leveled and skilled personnel to all tasks; and abide by the contractor's QMP, the NCCA QAPP, and the benthics method.	No more than 25% of reviewed deliverables and data shall require revisions to meet the requirements of the QMP, NCCA QAPP, data templates, and benthics method. None of the samples in the final database (Task V.4) shall have other than full sorts and counts.	100% of the data, taxonomists' resumes, and training certifications (per Task 1) will be reviewed by the EPA TOCOR to identify noncompliance issues with the QMP, NCCA QAPP, and benthics method. Final database will be reviewed for full sort and count information.	Unsatisfactory rating under the category of Quality in CPARS when the contractor does not meet the measurable performance standards during an applicable period of performance.
Performance Requirement	Measurable Performance Standards	Surveillance Method	Incentives/Disincentives
	All of the assigned staff must meet the LOM requirements for their assigned duties.		